

# भारत का राजपत्र

## The Gazette of India

प्राधिकार से प्रकाशित

PUBLISHED BY AUTHORITY

सं. 16] नई विल्ली, शनिवार, अप्रैल 22, 1978 (वैसाख 2, 1900)

No. 16] NEW DELHI, SATURDAY, APRIL 22, 1978 (VAISAKHA 2, 1900)

इस भाग में भिन्न पृष्ठ संख्या दी जाती है जिससे कि यह अलग संकलन के रूप में रखा जा सके।

Separate paging is given to this Part in order that it may be filed as a separate compilation.

### भाग III—खण्ड 2

#### PART III—SECTION 2

पेटेन्ट कार्यालय द्वारा जारी की गई पेटेन्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस

#### Notifications and Notices issued by the Patent Office relating to Patents and Designs

##### THE PATENT OFFICE

##### PATENTS AND DESIGNS

Calcutta, the 22nd April 1978

##### CORRIGENDUM

In the Gazette of India, Part III, Section 2 dated 11th February 1978, in page 112, Column 1, under the heading "RESTORATION PROCEEDINGS" under item (2), line 3, for "No. 124317" read "No. 124371".

In the Gazette of India, Part III, Section 2 dated 25th February 1978, in page 154, Column 1, under the heading "AMENDMENT PROCEEDINGS UNDER SECTION 57", line 1 for "Mahasooriy" read "Mahasooriya" and in page 156, column 1, under the heading "RESTORATION PROCEEDINGS", under item (3), line 3 for "Sharka" read "Sharma".

##### APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE

The dates shown in crescent brackets are the dates claimed under the Section 135 of the Act.

16th March 1978

281/Cal/78. Sandvik Aktiebolag. Drill bit.

282/Cal/78. Youngflex S. A. Improvements in and relating to seats. (April 4, 1977).

283/Cal/78. Westinghouse Electric Corporation. Electrically conducting gas condenser support for a puffer circuit interrupter.

17th March 1978

284/Cal/78. Debananda Pramanik. Improved oven.

37GI/78

285/Cal/78. The B. F. Goodrich Company. Internally coated reaction vessel for use in olefinic polymerization.

286/Cal/78. Kraftwerk Union Aktiengesellschaft. Method of bracing end turns of an electric machine by means of a binding band; and device used therein.

287/Cal/78. Nustep Trenndusen Entwicklungs-Und Patentverwertungs-Gesellschaft MBH & Co. KG. A device for enriching uranium by the separating-nozzle method.

288/Cal/78. Trutzchler GmbH & Co. KG. A device for receiving and tying one fibre band coming out of the delivery plant, to another fibre band.

289/Cal/78. Dana Corporation. Belleville damper for torque transmitting coupling device.

290/Cal/78. Sri Jiban Kishore Das and Dr. S. C. Mahapatra. Split-winding starting of single-phase induction motor.

18th March 1978

291/Cal/78. Tapan Kumar Sen. Compass of spiral.

292/Cal/78. L. Anderson. Expandable fastener.

293/Cal/78. Union Carbide Corporation. Preparation of organic sulfone compounds.

294/Cal/78. Union Carbide Corporation. Preparation of organic sulfone compounds.

20th March 1978

295/Cal/78. Lilly Industries Limited. Fungicidal combinations. (March 28, 1977).

296/Cal/78. Contraves AG. Solar heat collector. (February 24, 1978).

297/Cal/78. Lucas Industries Limited. Fuel injection pumping apparatus. (February 21, 1978).  
 298/Cal/78. SO "Bulgarski Darnavni Jeleznici". An undercarriage for different inter-track spacings.  
 299/Cal/78. Tideland Signal Corporation. Glass enclosed solar cell panel. (April 28, 1977).  
 300/Cal/78. Pilkington's Tiles Limited. Improvements in the manufacture of tiles

21st March 1978

301/Cal/78. Thermo King Corporation. Internal combustion engine starting circuit.  
 302/Cal/78. Davy-Loewy Limited. Manipulator. (March 31, 1977).  
 303/Cal/78. Mitsui Toatsu Chemicals, Incorporated. Process for preparing guanidine.  
 304/Cal/78. International Standard Electric Corporation. Subscribed line/trunk circuit.  
 305/Cal/78. Dainichi-Nippon Cables Ltd. Curing apparatus.  
 306/Cal/78. M. H. Desai. A lapping device for lapping of spiral of bevel and hypoid gears and pinions.  
 307/Cal/78. B. L. Bosshold. Letter opener device.  
 308/Cal/78. Combustion Engineering, Inc. Boiler cold start using pulverized coal in ignitor burners.

22nd March 1978

309/Cal/78. Rao and Associates. Improvements in or relating to reinforced suction hose.  
 310/Cal/78. Snamprogetti S.p.A. Converting solar energy into electric power.  
 311/Cal/78. Davy-Loewy Limited. Manufacture of elongate workpiece from pelleted material. (March 23, 1977).  
 312/Cal/78. Mobil Oil Corporation. Improved vapor phase isomerization of methyl-substituted aromatic hydrocarbons.  
 313/Cal/78. Ciba-Geigy AG. Process for combating micro-organisms, and novel phthalocyanine compounds.  
 314/Cal/78. Ciba-Geigy AG. Process for bleaching textiles.

APPLICATION FOR PATENTS FILED AT THE  
(MADRAS BRANCH)

8th March 1978

34/Mas/78. K. Rajan. Jumping stick.

13th March 1978

35/Mas/78. M. G. Vasudev. Webbings sling lift for lifting materials.  
 36/Mas/78. Shreshtha Electronics Private Limited. A miniaturised quartz timekeeping system with liquid crystal indication and light reactive drive.

14th March 1978

37/Mas/78. Tube Investments of India Limited. A hand-drawn or animal-drawn cart.

17th March 1978

38/Mas/78. The Indian Space Research Organisation. Process for the production of polyols.

## ALTERATION OF DATE

144283 } ante-dated 30th June, 1973.  
 339/Cal/76 }  
 144284 } ante-dated 30th June, 1973.  
 340/Cal/76 }  
 144285 } ante-dated 30th June, 1973.  
 341/Cal/76 }

144286 } ante-dated 30th June, 1973.  
 342/Cal/76 }  
 144287 } ante-dated 30th June, 1973.  
 343/Cal/76 }  
 144301 } ante-dated 2nd December, 1974.  
 401/Cal/75 }  
 144302 } ante-dated 2nd December, 1974.  
 402/Cal/75 }  
 144315 } ante-dated 7th November, 1974.  
 994/Cal/77 }

## COMPLETE SPECIFICATION ACCEPTED

Notice is hereby given that any person interested in opposing the grant of patents of any of the applications concerned may at any time within four months of the date of this issue or on form 14 prescribed under the Patents Rules, 1972 before the expiry of the said period of four months give notice to the Controller of Patents at the appropriate office as indicated in respect of each such application, on the prescribed form 15 of each opposition. The written statement of opposition should be filed along with the said notice or within one month from its date as prescribed in Rule 35 of the Patents Rules, 1972.

"The classifications given below in respect of each specification are according to Indian Classification and International Classification."

A limited number of printed copies of the specifications listed below will be available for sale from the Government of India Book Depots, 8 Kiran Shankar Ray Road, Calcutta in due course. The price of each specification is Rs. 2/- (postage extra is sent out of India). Requisition for the supply of the printed specifications should be accompanied by the number of the specifications as shown in the following list.

Typed or photo copies of the specifications together with the photo copies of the drawings, if any can be supplied by the Patent Office, Calcutta on payment of the prescribed copying charges which may be ascertained on application to that office.

CLASS 32F.b; 34A & 152-D.  
 Int. Cl.-C08f 29/00; C07d 29/02.

144267.

## PROCESS FOR PREPARING POLYPROPYLENE BASED STABILIZED POLYMERIC COMPOSITIONS AND RELATING FIBRES.

*Applicant* : MONTEFIBRE S.U.A. OF 14, VIA POLA, MILAN, ITALY.

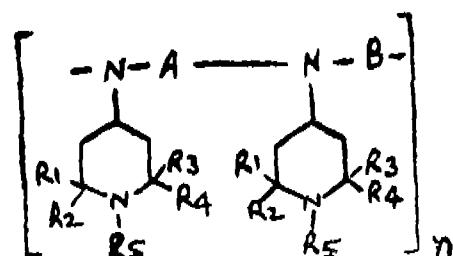
*Inventor* : GIUSEPPE CANTATORE.

Application No. 473/Cal/76 filed March 18, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims.

A process for preparing a stabilized polyolefine based polymeric composition, which consists in adding to the polyolefine a polyamine having the general formula I.



wherein :  $R^1$ ,  $R^2$ ,  $R^3$  and  $R_4$  equal to or different from each other, are an alkyl having from 1 to 4 carbon atoms.

$R_5$  is hydrogen or an alkyl having from 1 to 4 carbon atoms.

$A$  is an alkylene having from 2 to 10 carbon atoms.

$B$  is a bivalent aliphatic, cycloaliphatic, aromatic or alkyl-aromatic radical, which can contain hetero atoms such as O, S, N and P either in the chain or as side substituents, and  $n$  is a whole number comprised between 2 and 1000.

CLASS 55-D.

Int. Cl.-A01n 9/02; 9/20.

144268.

PROCESS FOR THE PREPARATION OF A SYSTEMIC FUNGICIDAL MIXTURE.

*Applicant* : PRODUITS CHIMIQUES UGINE KUHLMANN, 25 BOULEVARD DE L' AMIRAL BRUIX, PARIS 16, EME, FRANCE.

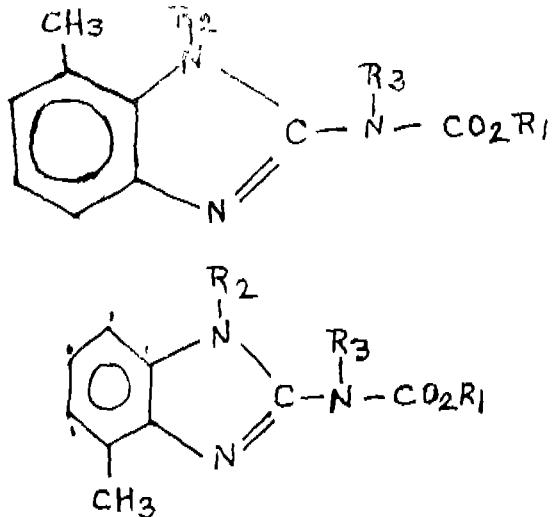
*Inventor* : GEORGES NAGY.

Application No. 379/Cal/76 filed March 3, 1976.

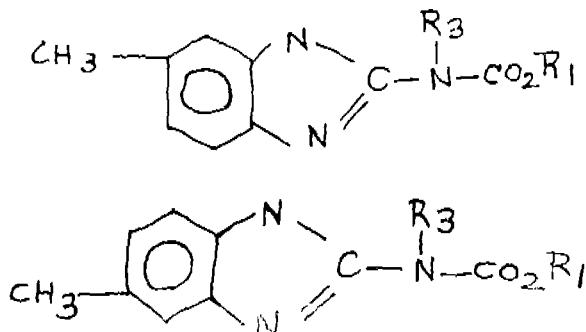
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

5 Claims.

Process for the preparation of a systemic fungicidal mixture (M) formed essentially from compounds (I) of formula A & B.



and compounds (II) of the formula C. & D.



in which  $R^1$  represented a lower alkyl group containing from 1 to 5 carbon atoms and  $R_2$  and  $R_3$  the same or different, represent hydrogen or one of the following groups  $-CO-R_1$ ,  $-CO_2R_1$ ,  $-CO-NR_2R_3$ ,  $-CH_2NR_2R_3$  in which  $R_1$  and  $R_2$  may possibly be substituted by halogen atoms and contain hetero atoms such as nitrogen, oxygen or sulphur,  $R_1$  and  $R_2$  may represent hydrogen or an alkyl, alkenyl, alkynyl, Cycloalkyl, aryl group,  $R_1$  and  $R_2$  may also contain oxygen, nitrogen

or sulphur heterocyclic ring, and  $R_3$  and  $R_4$  the same or different, represent hydrogen or a lower alkyl group having 1 to 5 carbon atoms, said process for preparing the said fungicidal mixture (M) comprising the steps of a dinitration of toluene, reduction by a known method such as herein described of the dinitro derivative to give a mixture of tolylenediamines from which the by-product (S) comprising preferably at least 90% by weight of a mixture of orthotolylenediamines is separated in known manner such as herein described, and then converting the said by-product (S) into the fungicidal mixture (M) from the orthotolylenediamines of the by-product (S) by any known process.

CLASS 163-D.

Int. Cl.-B67d 5/00.

144269.

CIRCULATING PUMP.

*Applicant* : KLEIN, SCHANZLIN & BECKER AG. OF 6710 FRANKENHAL, FEDERAL REPUBLIC OF GERMANY.

*Inventors* : WOLFGANG METZINGER, (2) PETER HERGT, & BERND BOLL.

Application No. 1039/Cal/76 filed June 15, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

8 Claims.

A fluid circulating apparatus, comprising a hollow housing having an inlet port and an outlet port and including internal partitions subdividing the interior of the housing into a first chamber communicating with the outlet port, and a second chamber including a first compartment communicating with said inlet port and a second compartment said partition including a funnel-shaped member and extending transversely through said housing and having a central opening providing communication between said second compartment and said first chamber, and an inclined wall separating said first compartment from said second compartment, said housing further having at least one first aperture through which fluid which enters said first compartment via said inlet port, can leave said first compartment and at least one second aperture through which fluid leaving said first compartment via said first aperture, can enter said second compartment; and a circulating pump installed in said first chamber and arranged to draw fluid through said central opening in said funnel shaped member from said second compartment and to discharge pressurized fluid into said first chamber and from the latter through said outlet port.

CLASS 56-B.

Int. Cl.-C10g 11/00.

144270.

PROCESS FOR HYDROREFINING OF DISTILLATE PETROLEUM FRACTIONS.

*Applicant & Inventors* : SERGEI PAVLOVICH ROGOV, ULITSA MATALLURGOV, 54, KORPUS 3, KV. 7, MOSCOW, USSR, (2) VSEVOLOD ARTUROVICH KHAVKIN, ULITSA VOLGINA 27, KV. 96, MOSCOW, USSR, (3) ALEXANDR VASILIEVICH AGAFONOV, SEMENOVSKAYA NABEREZHNAIA, 3/1, KORPUS 1, KV. 22, MOSCOW, USSR, (4) DAVID KHANAFIEVICH TEREGLOV, ULITSA 9, PARKOVAYA, 7, KV. 6, MOSCOW, USSR, (5) INESSA YAKOVLEVNA PEREZHGINA, 2 PROGONNAYA ULITSA 10, KV. 101, MOSCOW, USSR, (6) NINA VASILIEVNA GONCHAROVA, JURIEVSKY PEREULOK, 22 KORPUS 1, KV. 111, MOSCOW, USSR, (7) IGOR ERASTOVICH GELMS, SEMENOVSKAYA NABEREZHNAIA, 3/1, KORPUS 1, KV. 13, MOSCOW, USSR, (8) LEV NIKOLAEVICH OSPOV, ULITSA GARBOLDI, 21, KORPUS 3, KV. 52, MOSCOW, USSR, (9) ALBINA SERGEEVNA GASPARANTS, PROSPEKT DZERZHINSKOGO, 45, KV. 6, KISLOVODSK, USSR.

Application No. 1189/Cal/76 filed July 5, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims. No drawings.

A process for hydrorefining of distillate petroleum fractions, characterized in that a distillate petroleum fraction is brought in contact with a catalyst containing 8.5—4.5 wt. % of the type Y zeolite taken in a datuminized and decationized state, 68.0—71.0 wt. % alumina; 6.0—7.0 wt. % nickel oxides 16.0—17.0 wt. % molybdenum oxide and 1.5—0.5 wt. % of the oxides of rare-earth metals at a temperature from 360 to 400°C and a pressure of 40 to 50 atm in the presence of a hydrogen-containing gas to obtain a mixture containing the hydrorefined product, with subsequent isolation of the latter from said mixture by known method.

CLASS 206-E.  
Int. Cl.-H01L 1/12.

144271.

## IMPROVEMENTS IN OR RELATING TO A COOLING ARRANGEMENT FOR A SEMICONDUCTOR DEVICE.

*Applicant* : SIEMENS AKTIENGESELLSCHAFT OF BERLIN AND MUNICH, WEST GERMANY.

*Inventors* : HEINRICH FELKEL & KURT GROSSMANN.

Application No. 2117/Cal/76 filed November 26, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 13 Claims.

A cooling arrangement for a semiconductor device which has two opposed substantially flat surfaces through which heat can be lost from device, wherein the device is disposed between two members which bear on respective ones of said two surfaces, at least one of said two members being a cooling member, and said two members are bolted together with the device clamped there between by a plurality of bolts which extend through said two members and which are arranged such that the device is disposed between said bolts, each of the bolts having a spacer thereon on that side of said cooling member which faces away from said device and there being a pressure-applying member which is mounted on said bolts on said spacers, and a pressure transferring element which is clamped between said pressure-applying member and said cooling element by the action of the bolts and by virtue of the pressure-transferring element being thicker than said spacers, whereby the pressure-applying member and the pressure-transferring member increase the pressure between the cooling member and that flat surfaces of the semiconductor device upon which the cooling member bears the pressure increase being dependent upon the differences in thickness between the pressure-transferring member and the spacers.

CLASS 70-A.  
Int. Cl.-B01k 1/00.

144272.

## ELECTROLYZER AND A METHOD CONDUCTING ELECTROLYSIS THEREIN.

*Applicant* : INSTITUT NEORGANICHESKOI KHMII I ELEKTROKHIMNI AKADEMII NAUK GRUZINSKOI SSR., OF TBILISI, ULITSA Z. RUKHADZE 1, KORPUS 9, USSR.

*Inventors* : RAFEEL ILICH AGLADZE, (2) ERIK ARAMOVICH MANUKOV, (3) GEORGY RAFAELOVICH AGLADZE.

Application No. 2167/Cal/76 filed December 7, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972), Patent Office, Calcutta.

## 9 Claims.

An electrolyzer for obtaining chemical products such as herein defined comprising : a cell filled with a circulating electrolyte, the inner surface of said cell being made from a dielectric material; current leads which are non-soluble and arranged within said cell; a bulk electrode composed of pieces of a conducting material, said pieces filling the space between said current leads and the walls of the cell and as said pieces react with the circulating electrolyte, they receive a coat of film promoting the bipolar action of said pieces when said current leads are energized and a means for discharging slime and products of electrolysis, communicating with said cell.

CLASS 32A1.  
Int. Cl.-C09b 29/06.

144273.

## PREPARATION OF AZO DYESTUFFS.

*Applicant* : CASSELLA FARBWERKE MAINKUR AKTIENGESELLSCHAFT, OF 6000 FRANKFURT (MAIN) FRICHTHEIM, WEST GERMANY, 526 HANAUER LANDSTRASSE.

*Inventors* : ERNST HEINRICH & JOACHIM RIBKA.

Application No. 145/Cal/77 filed February 1, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 16 Claims.

A process for the manufacture of an azo dyestuff which comprises coupling a diazonium compound such as hereinbefore described with a coupling component such as hereinbefore described at a temperature of from 0 to 80°C and in the presence of an acid, in a solvent of dispersing medium comprising a mixture of from 90 to 15% by weight of an alphabetic alcohol having a chain length of from 4 to 60 atoms and a solubility in water of not more than 15% by weight at 15°C, and 10 to 85% by weight of water.

CLASS 85-K.  
Int. Cl.-F27b 9/00; F28b 21/00.

144274.

## A BOILER FURNACE DESIGN FOR PULVERIZED COAL AND STOKER FIRING.

*Applicant* : COMBUSTION ENGINEERING, INC., OF 1000 PROSPECT HILL ROAD, WINDSOR, CONNECTICUT UNITED STATES OF AMERICA.

*Inventors* : JOHN WILLIAM REGAN & DOUGLAS MICHAEL ROADE.

Application No. 362/Cal/77 filed March 11, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims.

A boiler furnace having upright walls enclosing a vertically disposed combustion chamber, a burner for pulverized coal in one of said walls adapted to project fuel for combustion into said chamber, means providing a supply of pulverized coal to said burner a grate at the bottom of said chamber movable to define an entrance end and a discharge end for a quantity of fuel thereon, means supplying a quantity of fuel to the entrance end of said grate and baffle means having inclined sides that flank a transverse opening intermediate the coal burner and the movable grate arranged to intercept solid products of combustion falling from the upper end of said boiler to the grate below.

CLASS 179C & E.G.  
Int. Cl.-B65d 41/32; 41/00.

144275.

## EASY OPENING, FRANGIBLE CROWN CAP.

*Applicant & Inventor* : SHIH-CHEN HSU, OF NO. 34, TIEN SUEI ROAD, TAIPEI, TAIWAN, REPUBLIC OF CHINA.

Application No. 663/Cal/77 filed May 4, 1977.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims.

An easy-opening crown cap for closing the open end of a container, such as for example a bottle, said crown cap having a substantially flat top and a depending annular skirt of crimped configuration having alternate raised and depressed portions, a downwardly and outwardly inclined tongue on the cap projecting below a bottom edge portion of the skirt, said tongue having a plurality of longitudinally extending reinforcing ribs of a length slightly greater than the crimps in the skirt and a lower end edge portion of the tongue being warped

to reinforce the tongue, said cap having a pair of circumferentially spaced apart notches extending upwardly from a lower edge of the skirt and located at the opposite edges of the tongue, and a pair of weakened score lines extending upwardly from the notches across the skirt and across the flat top of the cap a distance greater than the radius of the cap but less than the diameter thereof, whereby the tongue may be grasped by hand and lifted to fracture the score lines and remove the cap from said bottle.

CLASS 189.

Int. Cl.-A61k 7/00; A61-1; 23/00.

144276.

## SKIN LIGHTENING COMPOSITIONS.

*Applicant* : HINDUSTAN LEVER LIMITED, HINDUSTAN LEVER HOUSE, 165/166, BACKBAY RECLAMATION, BOMBAY-20, MAHARASHTRA, INDIA.

*Inventor* : DR. GIRISH PRASAD MATHUR.

Application No. 43/Bom/75 filed February 18, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patents Office, Bombay Branch.

9 Claims.

A skin lightening composition comprising niacinamide or a compound niacinamide ascorbate which releases niacinamide on the skin together with an ultra violet absorbing sunscreen compound as herein described.

CLASS 32F<sub>b</sub> & 55D<sub>a</sub>.

Int. Cl.-C07d 51/00, A01n 9/00.

144277.

## PROCESS FOR THE PRODUCTION OF NOVEL HETEROCYCLIC COMPOUNDS.

*Applicant* : CIBA-GEIGY OF INDIA LIMITED, OF AAREY ROAD, GOREGAON EAST, BOMBAY-400 003, MAHARASHTRA STATE, INDIA, AN INDIAN SUBSIDIARY OF THE SWISS COMPANY, CIBA-GEIGY LIMITED, BASLE, SWITZERLAND.

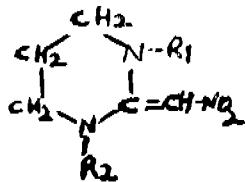
*Inventor* : SRINIVASACHARI RAJAPPA.

Application No. 101/Bom/75 filed April 11, 1975.

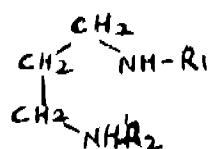
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

2 Claims.

Process for the production of novel heterocyclic compounds of formula I shown in the drawings accompanying the provisional specification.

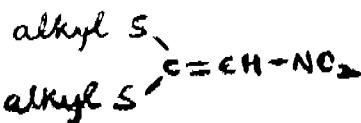


wherein R<sub>1</sub> and R<sub>2</sub> each represent hydrogen or 1-C<sub>1</sub>-alkyl which comprises reacting a compound of formula II shown in the drawings accompanying the provisional specification,



wherein R<sub>1</sub> and R<sub>2</sub> are as defined above with a compound of the formula III shown in the drawings accompanying the provi-

sional specification,



wherein alkyl denotes C<sub>1</sub>-C<sub>n</sub>-alkyl in a known manner such as herein described.

CLASS 32F<sub>a</sub> & 55D<sub>a</sub>.

Int. Cl.-C07c 149/00, A01n 9/00.

144278.

## PROCESS FOR THE PREPARATION OF INSECTICIDAL PRINCIPLES OF GARLIC.

*Applicant* : BHABHA ATOMIC RESEARCH CENTRE, A SCIENTIFIC INSTITUTION/LABORATORY OF THE DEPARTMENT OF ATOMIC ENERGY, GOVERNMENT OF INDIA, TROMBAY, BOMBAY-400 085, MAHARASHTRA, INDIA.

*Inventors* : DR. ASOKE BANERJI AND DOCTOR SHANKER VASUDI VAMONKAR.

Application No. 344/Bom/75 filed November 27, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

10 Claims. No drawings.

A process for the preparation of insecticidal principles of garlic, mainly a mixture of diallyl disulfide and diallyl trisulfide, comprising of the reaction of allyl halides with polysulfides of alkali metals or ammonium polysulfides.

CLASS 56A.

Int. Cl.-F28b 1/00, 9/00.

144279.

## PETROL VAPOUR CONDENSER FOR USE WITH PETROL STORAGE TANK.

*Applicant & Inventor* : GHANASIIYAM SHANKAR TASAONKAR, DHANJAYA RAMCHANDRA PHATAK, BOTH C/O. COLLEGE OF ENGINEERING, AMRAVATI, MAHARASHTRA STATE, INDIA.

Application No. 375/Bom/75 filed December 22, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

6 Claims.

A petrol vapour condenser for use with a petrol storage tank comprising a chamber having a condenser disposed therein, said condenser consisting of an expander and collector with condensing pipes therebetween, said expander being in flow communication with the vent tube of the storage tank, an outlet provided with said collector for the return flow of the condensed petrol vapours into said tank, and a coolant disposed within said chamber.

CLASS 173D<sub>1</sub> & D<sub>2</sub> & D<sub>3</sub>  
Int. Cl.-D01h 7/00.

144280.

## AN IMPROVEMENT IN THE CONSTRUCTION OF THE CYLINDRICAL FLYERS USED ON SPINNING AND TWISTING FRAMES FOR FIBRES LIKE JUTE.

*Applicant* : STAR TEXTILE ENGINEERING WORKS LIMITED, AT DHANRAJ MAHAL, CHHATRAPATI SHIVAJI MAHARAJ MARG, BOMBAY-400 001, STATE OF MAHARASHTRA, INDIA.

*Inventors* : RAMESH YADAVRAO CHURI, VAMAN VISHNO KULKARNI, RAMESH JANARDAN PHATAK AND SURSH MANHERLAL MEHTA.

Application No. 180/Bom/76 filed June 9, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 6 Claims.

An improvement in the construction of the cylindrical flyers used on spinning and twisting frames for fibres like jute, such a flyer having a pair of windows characterized in that one of the windows of the flyer has at its top and bottom slotted extensions on one side or it, the slots being provided with smooth inclined edges adapted to make the yarn lying loosely outside the surface of the flyer between the two slotted extensions after plying to slide inside the flyer when the yarn becomes tensioned upon the flyer being set rotating.

CLASS 107C.  
Int. Cl.-F02f 1/00.

144281.

## IMPROVEMENTS IN OR RELATING TO DIRECT INJECTION/PRECHAMBER CYLINDER HEAD OF A DIESEL ENGINE.

*Applicant* : TATA ENGINEERING & LOCOMOTIVE COMPANY LIMITED, OF BOMBAY HOUSE-24, HOMI MODY STREET, FORT, BOMBAY-400 001, MAHARASHTRA, INDIA.

*Inventor* : ASHOK ROSHA.

Application No. 382/Bom/76 filed October 30, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 9 Claims.

A direct injection/prechamber cylinder head of the kind described on the lower deck whereof at least one anti-crack groove is provided in the region of the bridge running between the inlet valve and the exhaust valve.

CLASS 170B.  
Int. Cl.-B24d 3/00, 3/10.

144282.

## ABRASIVE BODIES.

*Applicant* : DE BEERS INDUSTRIAL DIAMOND DIVISION (IRELAND) LIMITED, OF 24, INDUSTRIAL ESTATES, SHANNON AIRPORT, COUNTY CLARE, DUBLIN, IRELAND.

*Inventor* : ROBERT DENNIS MITCHELL.

Application No. 1748/Cal/75 filed September 11, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 19 Claims.

An abrasive compact comprising, diamond or cubic boron nitride abrasive particles or a mixture thereof, present in an amount of at least 50 volume per cent, bonded into a hard conglomerate, at least one surface of the compact having bonded thereto a metal layer, to enable proper bonding with a suitable support of thickness less than 0.5 mm characterised in that the metal of the bonding layer is a transition metal capable of wetting the abrasive compact (as hereinbefore defined) or an alloy containing such a metal and the compact is substantially free of deteriorated abrasive particles as herein described.

CLASS 32F<sub>1</sub> & F<sub>2</sub>b.  
Int. Cl.-C07d 35/20, 35/36.

144283.

## PROCESS FOR THE PREPARATION OF AMINO-IMIDAZO AND AMINO-PYRAZOLO-ISOQUINOLINES.

*Applicant* : CHINOIN GYOGYSZER ES VEGYESZETI TERMEKER GYARA RT. OF 1-5 TO U. BUDAPEST, IV, HUNGARY.

*Inventors* : KALMAN TAKACS, DR. LASZLO SZEKERES, DR. KALMAN HARSANYI, DR. GYULA PAPP, DR. ANDRAS NESZMELYI AND EVA BENEDEK.

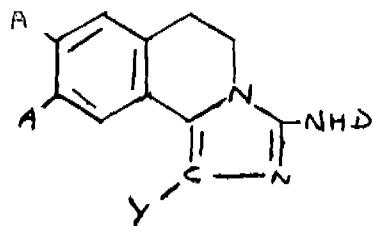
Application No. 339/Cal/76 filed February 26, 1976.

Division of Application No. 1533/Cal/73 filed June 30, 1973.

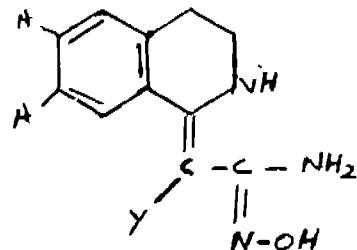
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 1 Claim.

A process for preparing a new amino-imidazolo-isoquinoline derivatives having the general formula VI.



wherein A is a C<sub>1-4</sub> alkoxy group, Y is a hydrogen, a C alkyl or a phenyl group, D is a hydrogen, convertible in a known manner to a C<sub>1-4</sub> alkyl, or a C<sub>7-10</sub> aralkyl group, and/or the salts thereof, which comprises acylating the isoquinolyl-acetamidoxime having the general formula VIIA.



Wherein A and Y have the same meaning as stated above to the action of a conventional acylating agent such as sulphonic acid halogenide or a carbonic acid derivative in equimolar amount or in excess as required the acid addition salts of compound of formula VI.

CLASS 32F<sub>1</sub> & F<sub>2</sub>b.  
Int. Cl.-C07d 35/20, 35/36.

144284.

## PROCESS FOR THE PREPARATION OF AMINO-IMIDAZO AND AMINO-PYRAZOLO-ISOQUINOLINES.

*Applicant* : CHINOIN GYOGYSZER ES VEGYESZETI TERMEKER GYARA RT. OF 1-5 TO U. BUDAPEST, IV, HUNGARY.

*Inventors* : KALMAN TAKACS, DR. LASZLO SZEKERES, DR. KALMAN HARSANYI, DR. GYULA PAPP, DR. ANDRAS NESZMELYI AND EVA BENEDEK.

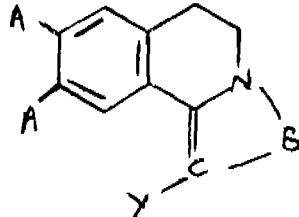
Application No. 340/Cal/76 filed February 26, 1976.

Division of Application No. 1533/Cal/73 filed June 30, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 4 Claims.

A process for the preparation of the new compounds of the general formula I.



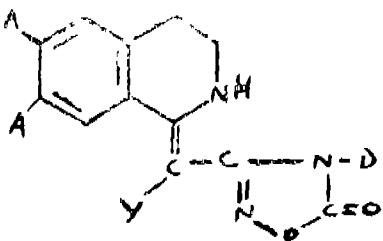
and/or the acid addition salts thereof, wherein

A stands for an alkyl having 1 to 4 carbon atoms,

B is a carbamidino group of the formula -N=C-NH-D, wherein

D is hydrogen, alkyl having 1 to 4 carbon atoms, aralkyl having 7 to 10 carbon atoms, and

Y stands for hydrogen, which comprises, subjecting to cyclization the compounds of the general formula IV.



wherein A and Y have the same meaning as defined above and D stands for hydrogen, alkyl or aralkyl by and optionally transforming the compound of the general formula I, obtained into the acid addition salts thereof in a conventional manner or optionally delibrating the bases of the general formula I from the salts thereof in a conventional manner.

CLASS 32F<sub>1</sub> & F<sub>2</sub>b.  
Int. Cl.-C07d 35/20, 35/36.

144285.

PROCESS FOR THE PREPARATION OF AMINO-IMIDAZO AND AMINO-PYRAZOLO-ISOQUINOLINES.

Applicant: CHINOIN GYOGYSZER ES VEGYESZETI TERMEKER GYARA RT., OF 1-5 TO U, BUDAPEST IV, HUNGARY.

Inventors: KALMAN TAKACS, DR. LASZLO SZEKERES, DR. KALMAN HARSANYI, DR. GYULA PAPP, DR. ANDRAS NESZMELYI AND EVA BENEDEK.

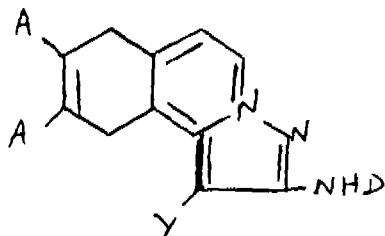
Application No. 341/Cal/76 filed February 26, 1976.

Division of Application No. 1533/Cal/73 filed June 30, 1973.

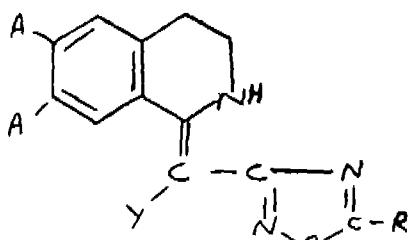
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim.

A process for preparing new aminopyrazolo-isochinoline derivatives having the general formula IC.



wherein A is a C<sub>1-4</sub> alkoxy group, D is hydrogen or a C<sub>1-4</sub> alkyl group, a C<sub>7-10</sub> aralkyl group, a C<sub>6-10</sub> aryl, and Y is a hydrogen and/or their acid addition salts which comprises, treating a compound of formula V.



wherein A and Y are as defined above and R is hydrogen and alkyl aralkyl or aryl group by heating in an alkaline medium in a solvent or a melt under reflux temperature or with an alkaline base, the acid addition salts of compound of formula IC being prepared in a conventional manner.

CLASS 32F<sub>1</sub> & F<sub>2</sub>b.  
Int. Cl.-C07d 35/20, 35/36.

144286.

PROCESS FOR THE PREPARATION OF AMINO-IMIDAZO AND AMINO-PYRAZOLO-ISOQUINOLINES.

Applicant: CHINOIN GYOGYSZER ES VEGYESZETI TERMEKER GYARA RT., OF 1-5 TO U, BUDAPEST IV, HUNGARY.

Inventors: KALMAN TAKACS, DR. LASZLO SZEKERES, DR. KALMAN HARSANYI, DR. GYULA PAPP, DR. ANDRAS NESZMELYI AND EVA BENEDEK.

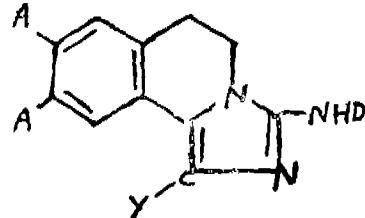
Application No. 342/Cal/76 filed February 26, 1976.

Division of Application No. 1533/Cal/73 filed June 30, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

1 Claim.

Process for the preparation of new amino-imidazo isoquinoline derivatives of the general formula VI.

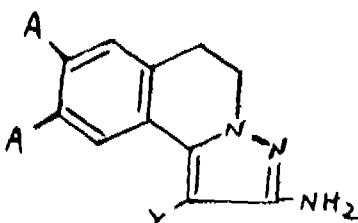


and the acid addition salts thereof wherein—

A stands for an alkoxy group containing 1-4 carbon atoms

Y stands for hydrogen, a nitrile-, carboxamido, an alkyl group containing 1-4 carbon atoms or a phenyl group,

D stands for an alkanoyl group containing 1-4 carbon atoms optionally substituted by halogen atoms, an aroyl-, or optionally an aralkanoyl group containing 7-10 carbon atoms, or optionally an arylsulfonyl group substituted by an alkyl group containing 1-4 carbon atoms, which comprises acylating compounds of the general formula VIII.



wherein A and Y are defined above, with sulfonic acid halide or carboxylic acid derivatives as acylating agent.

CLASS 32F<sub>1</sub> and F<sub>2</sub>b.

144287.

Int. Cl.-C07d 35/20, 35/36.

PROCESS FOR THE PREPARATION OF AMINO-IMIDAZO AND AMINO-PYRAZOLO ISOQUINOLINES.

Applicant: CHINOIN GYOGYSZER ES VEGYESZETI TERMEKER GYARA RT., OF 1-5 TO U, BUDAPEST IV, HUNGARY.

Inventors: KALMAN TAKACS, DR. LASZLO SZEKERES, DR. KALMAN HARSANYI, DR. GYULA PAPP, DR. ANDRAS NESZMELYI AND EVA BENEDEK.

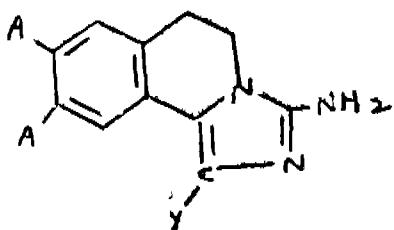
Application No. 343/Cal/76 filed February 26, 1976.

Division of Application No. 1533/Cal/73 filed June 30, 1973.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 1 Claim.

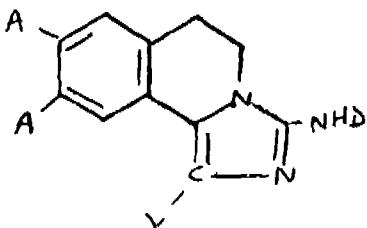
Process for the preparation of new amino-pyrazolo isoquinoline derivatives of the general formula VIII.



and the acid addition salts thereof wherein—

A stands for an alkoxy group containing 3-4 carbon atoms

Y stands for hydrogen, a nitrile-, carboxamido, an alkyl group containing 1-4 carbon atoms or a phenyl group which comprises subjecting compounds of the general formula VI.



wherein A and Y are defined above and D stands for an alkanol group containing 1-4 carbon atoms optionally substituted by halogen atoms, an aryl-, or optionally an arylsulfonyl group substituted by an alkyl group containing 1-4 carbon atoms/ to hydrolytic in a manner known per se.

CLASS 153.  
Int. Cl. B24d 3/00.

144288.

## AN ABRASIVE TOOL FOR GRINDING.

Applicant: GENERAL ELECTRIC COMPANY, OF 1 RIVER ROAD, SCHENECTADY, NEW YORK, UNITED STATES OF AMERICA.

Inventor: EDWIN MICHAEL TAUSCH AND JAMES THOMAS LOWDER.

Application No. 1706/Cal/76 filed September 15, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 15 Claims.

A composite abrasive tool comprising: a carrier member a plurality of abrasive crystals selected from the group consisting of diamond and cubic boron nitride crystals, a metallic layer bonded to said carrier member, said crystals being partially embedded in said metallic layer and a non-metallic layer overcoating said metallic layer and partially surrounding said crystals, said crystals being exposed from said non-metallic layer at the ends thereof opposite said carrier member.

CLASS 32F1 & F1b.  
Int. Cl. C07d 53/02.

144289.

## PROCESS FOR PREPARING NEW 6-ARYL-S-TRIAZOLO-(4, 3-A) PYRIDO (2, 3-F)-1, 4-DIAZEPINES.

Applicant: DEUTSCHE GOLD-UND SILBER-SCHEFID-FANSTALT VORMALS ROESSLER, OF 9, WISSFRAU-UFNSTRASSE, FRANKFURT (MAIN), FEDERAL REPUBLIC OF GERMANY.

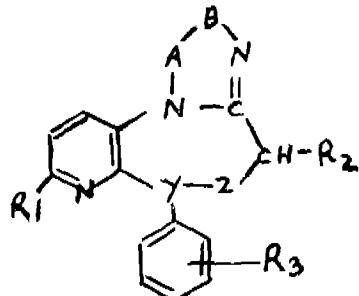
Inventors: DR. WALTER VON BEEBENBURG, NORBERT SCHULMEYER AND DR. VLADIMIR JAKOV-LEV.

Application No. 2062/Cal/76 filed November 17, 1976.

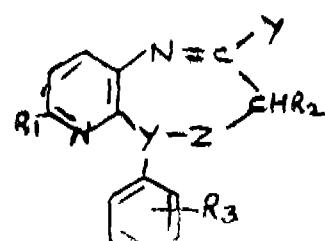
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 2 Claims.

A process for preparing 6-aryl-s-triazolo-(4, 3-a)-pyrido-(2, 3-f)-1, 4-diazepines of the general formula I.

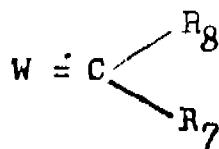


wherein R<sub>1</sub> means a hydrogen atom, a halogen atom, an alkyl group with 1-6 C-atoms, a hydroxy group, an alkoxy group with 1-6 atoms, a mercapto group with 1-6 C-atoms, an alkyl-sulphonate group with 1-6 C-atoms, an amino group, an aliphatic acyl-amino group with 2-6 C-atoms, a monoalkyl-amino group with 1-6 C-atoms or a dialkylamino group with alkyl radicals of 1-6 C-atoms, where the alkyl radicals of this dialkyl-amino group together with the N-atom and, if necessary, with a further nitrogen- or oxygen atom may also form a saturated 5- to 7-member ring, R<sub>2</sub> means a hydrogen atom, an alkyl group with 1-6 C-atoms, a hydroxy group, acyloxy group with 2-6 C-atoms, an alkoxy group with 1-6 C-atoms, a mercapto group, an alkyl-mercaptop group with 1-6 C-atoms a halogen atom, an amino group, an aliphatic acyl-amino group with 2-6 C-atoms, a monoalkyl-amino group with 1-6 C-atoms or a dialkyl-amino group with alkyl radicals of 1-6 C-atoms, where the alkyl radicals of this dialkyl-amino group together with the N-atom or, if necessary, a further nitrogen- or oxygen atom may also form a saturated 5-7 member ring, R<sub>3</sub> is oxygen, an alkyl group with 1-6 C-atoms, an alkoxy group with 1-6 C-atoms or a halogen atom, the structural component A-B represents the group -N=N-, -CH<sub>2</sub>NH-, -CO-NR, -C(SR<sub>4</sub>)=N-, -C(OR<sub>5</sub>)=N-, -C(NR<sub>6</sub>R<sub>7</sub>)N- or -CR<sub>8</sub>=N-, where R<sub>4</sub> is hydrogen, an alkenyl group with 2-6 C-atoms, an alkynyl group with 2-6 C-atoms, a hydroxy alkyl group with 1-6 C-atoms, a keto-alkyl group with 1-6 C-atoms, a cyano-alkyl group with 1-6 C-atoms or an alkyl group with 1-6 C-atoms, which, if necessary contains an alkoxy group with 1-6 C-atoms or a dialkyl-amino group with alkyl radicals of 1-6 C-atoms, where the alkyl radicals of this dialkyl-amino group together with the N-atoms and, if necessary, a further nitrogen or oxygen atom may also form a saturated 5-7 member ring, R<sub>5</sub> means hydrogen or an alkyl group with 1-6 C-atoms, R<sub>6</sub> hydrogen or an alkyl group with 1-6 C-atoms or a halogen-alkyl group and Y-Z means the groupings >C=N-, >C=N(-O)->CH-NH- or >CH-N(OH)- and where R<sub>7</sub> cannot be an alkyl group, when R<sub>7</sub> is chlorine, R<sub>8</sub> hydrogen, R<sub>9</sub> hydrogen or halogen and Y-Z the grouping C=N-, its optical isomers and their salts, which comprises reacting a compound of the general formula II



wherein R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub> and Y-Z have the meaning stated above and V is an oxymercapto, amino, benzylamino-1, C<sub>2</sub>-C<sub>6</sub>-alkoxy-, C<sub>1</sub>-C<sub>6</sub>-alkylthio-, C<sub>1</sub>-C<sub>6</sub>-alkylamino- or di- C<sub>1</sub>-C<sub>6</sub>-alkylamino group or signifies the radical -NH-NHR<sub>9</sub>, wherein R<sub>9</sub>

may have the meaning given above with a compound of the general formula III.



wherein formula III W is oxygen, sulphur, NH or  $(R_7O)_2$  or  $(R_7S)_2$ , respectively and the radicals  $R_7$  and  $R_8$  are identical or different and may mean hydrogen, the radical  $-NR_1-NH_2$ , a hydroxy group, a mercapto group, a halogen atom, an amino group, a low alkyl- or dialkyl-amino group, an imidzolyl group, a low alkoxy group or a low alkyl-mercapto group or together one sulphur atom, where one of the radicals  $R_7$  or  $R_8$  may also form an alkyl group with 1-6 C-atoms, a halogen alkyl group with 1-6 C-atoms or together with the component  $W=C$  also the cyanogen group or the NO<sub>2</sub> group and if necessary, in the compounds obtained the radicals  $R_1$ ,  $R_2$  and/or  $R_3$  or the group A-B or Y-Z converted into other meaning coming into consideration for the same, the optical isomers and/or their salts being prepared, if desired, in a manner known per se.

CLASS 146D<sup>1</sup> & 148H.  
Int. Cl.-G02b 1/00, B29d 11/00.

144290.

PROCESS FOR PREPARING PHOTO CHROMIC PARTICLES AND PLASTIC MATERIALS CONTAINING THE SAME.

Applicant : AMERICAN OPTICAL CORPORATION, OF 14 MECHANIC STREET, SOUTHBRIDGE, STATE OF MASSACHUSETTS, UNITED STATES OF AMERICA.

Inventors : DONALD R. UNLMANN, ELIAS SNITZER, RICHARD JOHN HOVEY NORI YAW-CHYUAN CHU AND JOSEPH, T. FOURNIER JR.

Application No. 1419/Cal/75 filed July 21, 1975.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta.

23 Claims. No drawings.

A process for producing photochromic particles comprising silver halide crystals whose dimensions lie in the range between approximately 30 Angstroms and approximately 100 Angstroms, characterised by forming silver halide crystals of the above dimensions by the interaction between a solution or dispersion of a silver salt (other than halide) as one component and a metal halide as the other, and coating the said crystals with a material such as herein described so as to render the coating impervious to halogen diffusion, and if desired, doping the silver halide crystals with upto 50 ion per cent of a mono or divalent cation which serves as hole traps.

CLASS 63A.  
Int. Cl.-H02k 19/00.

144291.

#### ELECTRIC MOTOR.

Applicant : KIEVSKY POLITEKHNICHESKY INSTITUT IMENI 50-LEIT WELIKOI OKTYABRSKOI SOTSIALISTICHESKOI REVOLJUTSII, OF KFEV, BREST-LITOVSKY PROSPEKT, 39, U.S.S.R.

Inventors : VLADIMIR SERGEEVICH VISHNEVSKY, (2) VLADIMIR LEONIDOVICH KAVERTSEV, (3) IGOR ALEXANDROVICH KARTASHEY, (4) VYACHESLAV VASILLEVICH LAVRINENKO, (5) NIKHAIL MAKAROVICH NEKRASOV AND ALEXEI ALEXEEVICH PREZ.

Application No. 1639/Cal/75 filed August 21, 1975.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta.  
2—37GI/78.

61 Claims.

An electric motor comprising a stator and a rotor, at least one of them including at least one vibrator incorporating a piezoelectric device of which the outgoing leads are connected to a voltage source, said stator and said rotor being urged against each other at least one point belonging to the surface of said vibrator, for transmission of the driving torque.

CLASS 186A.  
Int. Cl.-H03h 7/38.

144292.

#### IMPEDANCE MATCHING DEVICE.

Applicant : BUNKER RAMO CORPORATION, OF 900 COMMERCE DRIVE, OAK BROOK, ILLINOIS, UNITED STATES OF AMERICA, INCORPORATED IN THE STATE OF DELAWARE, UNITED STATES OF AMERICA.

Inventors : KEIJIRO KUSAKA AND YASUSHI OTOMO.

Application No. 1820/Cal/75 filed September 23, 1975.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta.

6 Claims.

An impedance matching device comprising: a rectangular insulative substrate; a first conductive strip along one edge of said substrate; a second conductive strip insulated from said first conductive strip and disposed along an edge of said substrate opposite said one edge; film resistor deposited on said substrate extending between said conductive strips; an input conductive path of a first width on said substrate insulated from said strips and connected to said film resistor; and an output conductive path of a second width on said substrate insulated from said strips and disposed on the side of said film resistor said input conductive path and connected to said film resistor, said film resistor having an exponentially changing impedance between said input conductive path and said output conductive path.

CLASS 33A.  
Int. Cl.-B22d 13/10, 37/00.

144293.

#### APPARATUS FOR SHIFTING TROUGH OF CENTRIFUGAL CASTING MACHINE.

Applicant : UNITED STATES PIPE AND FOUNDRY COMPANY, AT 3300 FIRST AVENUE, NORTH, BIRMINGHAM, ALABAMA, UNITED STATES OF AMERICA.

Inventor : WILLIAM A. MONTGOMERY.

Application No. 1898/Cal/75 filed October 3, 1975.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

An apparatus for shifting the trough of a centrifugal casting machine of the retraction casting type, including an elevated support member, at least one upright suspension member hingedly connected at its upper end to said elevated support member and suspended therefrom, a support plate hingedly connected to the lower end of said upright suspension member, at least one trough attached to said support plate, and means for reciprocating said upright suspension member to move said trough from a first to a second position.

CLASS 146C & 206E.  
Int. Cl.-H03k 13/02, G01n 1/00

144294.

#### IMPROVEMENTS IN OR RELATING TO "A DIGITAL DAMPOMETER" USED IN THE MEASUREMENT OF LOGARITHMIC DECREMENT.

Applicant : COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFT MARG, NEW DELHI-1, INDIA.

Inventors : PATTAMADAI PASWARAIYER SANKARA-NARAYANAN AND BARKUR SURYANARAYANA ADIGA

Application No. 28/Cal/76 filed January 3, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch

2 Claims.

A Digital Dampometer for the measurement of logarithmic decrement and frequency or time period of damped sine waves comprising (a) a peak sensor pulse generator that senses the peak values of the input damped sine waves, connected to (b) a central programmer which selects the two appropriate amplitude peaks of the damped sine waves or computation of logarithmic decrement whereby these two peak values are fed through (c) two electronic gates to (d) two logarithmic A/D converters, which are also fed by (c) a crystal stabilised clock to facilitate quantisation and the outputs of the (d) two logarithmic A/D converters are subtracted in (f) a time subtractor and its output indicated in one of the (g) displays, with (h) a master control controlling the entire operation of the system including computing the logarithmic decrement and (i) a frequency or time period measuring circuit along with (e) the crystal stabilised clock enables the display of frequency or the time period of the damped sinusoidal oscillations in one another (g) display, wherein the analogue input data namely the damped sine wave that is sensed by a suitable transducer and signal conditions constitutes the input which is fed to the peak sensor pulse generator, the output of which is a series of constant amplitude pulses of 10 microseconds width, and this train of pulses constitutes the input to (b) the central programmer which essentially controls the entire working of the system and with this it is possible to select the required peak amplitudes of input data, say  $V_0$  and  $V_n$  (accompanying Fig. 1) and the values of  $V_0$  and  $V_n$  are quantised in time with the use of (d) two logarithmic A/D converters and the value of  $\log \frac{V_0}{V_n}$

is computed in (f) the time subtractor, the division by 'n' is done through the programmer, and the value of viz., logarithmic decrement determined using the relation

$$\delta = \frac{1}{n} \cdot \log \cdot \frac{V_0}{V_n}$$

is displayed digitally.

CLASS 46C.  
Int. Cl.-G02p 13/02.

144295.

IMPROVEMENTS IN OR RELATING TO THE WIND DIRECTION RECORDER.

Applicant: COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

Inventors: VIDYADHAR RAGHUNATH BHAVE AND JAYDEV MAHANLAL DAVE.

Application No. 1443/Cal/76 filed August 9, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

6 Claims.

An improved wind direction recorder for automatic recording of wind direction consisting of a wind vane, counter weight means, a wind vane shaft made in two parts, a pipe and a rod shaft with a bevel gear fixed at its lower end, a chart paper cylinder mounted horizontally on two vertically mounted plates and easily detachable there from, a bevel gear fixed over shaft of the chart paper drum and smoothly engaged to the bevel gear of the wind vane shaft and a pen point moving horizontally according to time consisting of a clock mechanism mounted horizontally, a helical slotted cylinder mounted horizontally over two vertical supports and engaged into hour hand shaft of the clock mechanism, a taught wire fixed on the same vertical supports and pen block smoothly sliding over the taught wire with one end engaged in a helical slot and its writing end the chart paper drum.

CLASS 40F & 139G.  
Int. Cl.-C01b 17/04.

144296.

AN IMPROVEMENT RELATING TO PLANT FOR PRODUCING ELEMENTAL SULPHUR FROM SULPHUR-BEARING CASES.

Applicant: OPYTNO-KONSTRUKTORSKOF BJURO FNGEROTEKHNOLOGICHESKIKH PROTSESSOV KHMICHESKOI PROMYSHLENNOSTI, UTS A SCHFR-BAKOVSKAYA, 3, MOSCOW, USSR.

Inventors: MARK YAKOVLEVICH KHINKIS, JURY NIKOLAEVICH FEDOROV AND SAMUIL VENIAMINOVICH LEVITIN.

Application No. 1509/Cal/76 filed August 19, 1976.

Appropriate office for opposition Proceedings (Rule 4 Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.

An improvement relating to a plant for producing elemental sulphur from sulphur-bearing gases, said plant incorporating a source of feed water, a reaction vessel for high-temperature conversion of sulphur-bearing gases, accompanied by formation of the reaction gases containing vaporiform sulphur and by generation of high-pressure steam, said reaction vessel being interconnected, through the gas end, to the first-stage gas-to-gas heat exchanger which is communicated, through the gas end, to the first stage sulphur condenser adapted for the sulphur vapours to condense and the thus-condensed sulphur to withdrawal, said first-stage sulphur condenser being made as an economizer connected, through the feed-water end, in parallel with the source of feed water and communicated with a header, and through the gas end connected to the first-stage gas-to-gas heat exchanger which is communicated, through the gas end, with the first-stage converter adapted for the sulphur-bearing gases to interreact so as to give vaporiform sulphur, said first-stage converted being interconnected, through the gas end, with the second-stage gas-to-gas heat exchanger which is communicated, through the gas end, with the second-stage sulphur condenser made as an economizer adapted for condensing sulphur vapours from the reaction gases fed from the second-stage heat exchanger and for withdrawal of the thus-condensed sulphur, said second-stage sulphur condenser being communicated, through the feed-water end, with the header and being connected in parallel with the source of feed water and through the gas end to the second-stage gas-to-gas heat exchanger which is connected, through the gas end, to the second-stage converter communicated, through the gas end, with the third-stage sulphur condenser made as an economizer, the latter being communicated, through the feed-water end, with the header and being communicated in parallel with the source of feed water, and through the gas end with the separator that is interconnected with the afterburner oven, whereas the reaction vessel is communicated, through the feed-water end and via the header and condensers, with the source of feed water.

CLASS 114D & 123.  
Int. Cl.-C14c 15/00, C05f 1/00

144297.

PROCESS FOR THE PRODUCTION OF COMPOSITE FERTILIZER FROM LEATHER WASTES.

Applicant & Inventor: DR. MAHADFV ADHIKARI AND SRI DEBAPRASAD GHOSH DASTIDAR DEPARTMENT OF APPLIED CHEMISTRY, UNIVERSITY OF CALCUTTA 92, ACHARYA PRAFULLA CHANDRA ROAD CALCUTTA-700 009.

Application No. 1548/Cal/76 filed August 24, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta

6 Claims. No drawings.

A process for preparation of composite fertilizer from leather wastes which comprises the following steps:

- Leather wastes are washed with water, then
- treated successively with dil. acid dil. alkali followed by dil. acid,

- (c) soaked in about 6(N)H<sub>2</sub>SO<sub>4</sub> for about 24 hours, which is then
- (d) digested at about 90°C for 5-6 hours.
- (e) interacted with finely ground rock-phosphat (500 g/Kg of leather wastes).
- (f) neutralised excess acidity with finely ground dolomite till pH 5-5.5, interacted with urea at room temperature (for interaction, 200 g. urea is to be used per kg of leather wastes), the product thus obtained is dried at about 90°C, cooled and powdered for use as a fertilizer.

CLASS 107-F. 144298.  
Int. Cl.-H01t 13/20.

A CENTRE ELECTRODE FOR SPARK PLUG.

*Applicant* : CHAMPION SPARK PLUG COMPANY, 900 UPTON AVENUE, TOLEDO, OHIO, U.S.A.

*Inventors* : CARL JAMES EATON & RICHARD STANLEY PODIAK.

Application No. 2446/Cal/74 filed November 7, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

9 Claims.

A centre electrode for a spark plug having a grounded shell an insulator, at least one ground electrode carried by the shell, and the center electrode in sparking relationship with said ground electrode, said center electrode being formed of metal having good spark corrosion resistant properties and having a central bore in at least its firing end, characterised in that there is provided an insert of previous metal alloy in said bore which is swaged into firm mechanically supported relationship with the adjacent centre electrode body, the end of said insert being exposed at the firing end of said centre electrode.

CLASS 159-H. 144299.  
Int. Cl.-B61-1; 11/06.

IMPROVEMENTS IN OR RELATING TO HYDRAULIC OR PNEUMATIC POINTS MACHINES.

*Applicant* : WESTINGHOUSE BRAKE & SIGNAL COMPANY LIMITED, OF 82, YORK WAY, KINGS CROSS, LONDON BUT NOW OF 3, JOHN STREET, LONDON WC1N 2ES, ENGLAND.

*Inventor* : GOLIN MICHAEL BOWLES.

Application No. 2712/Cal/74 filed December 10, 1974.

Convention date January 18, 74(02502/74) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims.

A hydraulic or pneumatic points machine including a source of hydraulic or pneumatic power, a first hydraulic or pneumatic actuator for connection to the movable part of a set of railway points a separate second hydraulic or pneumatic actuator for connection to a lock mechanism for selectively locking the movable part at its extremes of movement, an interlocking hydraulic or pneumatic power transmission circuit between the source and the actuators, and mechanical checking means to sense completion of the movement of the movable part of the points.

CLASS 128A & E & G. 144300.  
Int. Cl.-G01d 7/00.

MOISTURE DETECTOR ADAPTED FOR USE IN HUMAN BODY.

*Applicant & Inventors* : HELENE MACIAS AND ANGOS WINKE, BOTH OF 5333 RUSSELL AVENUE APT. 301, HOLLYWOOD, CALIFORNIA 90027, UNITED STATES OF AMERICA.

Application No. 2745/Cal/74 filed December 13, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims.

A moisture detector for sensing and indicating the flow of conductive fluid in a specified region of the human body comprising; a sensor having two closely spaced elongated conductors, each conductor being surrounded by an elongated porous sheath normally providing electrical isolation when dry between the conductors but allowing an electrical short circuit to occur between the conductors in the presence of fluid bringing the two conductors; and signal generator and visual or audible indicating apparatus connected to the sensor to provide an indication of a short circuit between the conductors wherein the flow of current is less than a few microamperes.

CLASS 29-A & 67-C. 144301.  
Int. Cl.-G06f 1/00.

A BINARY DATA PROCESSOR SYSTEM.

*Applicant* : BURROUGHS CORPORATION, AT BURROUGHS PLACE, DETROIT, MICHIGAN 48232, UNITED STATES OF AMERICA.

*Inventors* : ROBERT STANLEY BARTON, (2) ALAN LYNN DAVIS, (3) ERWIN ARTHUR HAUCK, (4) DON MARTIN LYLE, (5) LLOYD DRAYTON TURNER, (6) JOHN RICHARD WERNER, (7) GARY WESLEY HODGMAN, & (8) MICHAEL HOWDOS MISSIOS.

Application No. 401/Cal/76 filed March 3, 1975.

Division of application No. 2662/Cal/74 filed December 2, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

2 Claims.

A binary data processor system wherein data communication within and with said process or system is carried out as character-serial, a character being a plurality of binary bits long, comprising :

data storage means containing data files composed of data fields having data characters therein and program identifying data, said data fields and data files being delimited by data start and data and characters, input circuit means for receiving data files composed of data fields having data therein and contains operand identifying data, said data fields and data files being delimited by data start and data and characters, output circuit means for receiving a destination address field and an operand field, said address field and operand field comprising data structures.

CLASS 29-A & 67-C. 144302.  
Int. Cl.-G06f 1/00.

BINARY DATA DRIVEN PROCESSOR SYSTEM HAVING STORAGE MEANS AND INPUT CIRCUIT MEANS AND INPUT CIRCUIT MEANS.

*Applicant* : BURROUGHS CORPORATION, AT BURROUGHS PLACE, DETROIT, MICHIGAN 48232, UNITED STATES OF AMERICA.

*Inventors* : ROBERT STANLEY BARTON, (2) ALAN LYNN DAVIS, (3) ERWIN ARTHUR HAUCK, (4) DON MARTIN LYLE, (5) LLOYD DRAYTON TURNER, (6) JOHN RICHARD WERNER, (7) GARY WESLEY HODGMAN, & (8) MICHAEL HOWDOS MISSIOS.

Application No. 402/Cal/75 filed March 3, 1975.

Division of application No. 2662/Cal/74 filed December 2, 1974.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.



bellows; a second valve operatively connected to selectively communicate between said bellows and the atmosphere; a first speed signal circuit producing a signal proportional to the desired vehicle speed, a second speed signal circuits producing a signal proportional to the actual vehicle speed; dead-band signal circuit associated with one of said speed signal circuits; and, a comparator circuit receiving signals from said first and second signal circuits and said dead-band signal circuit and connected to said valves whereby said first valve provides its said communication when the vehicle speed is too low by reference to said set point speed and said second valve provides its said communication when the vehicle speed is too high with reference to said set point speed and both said first and second valves do not provide their said communication over a narrow range determined by said dead-band.

CLASS 63D. 144307.  
Int. Cl.-H02k 9/00, 13/00.

#### DYNAMOELECTRIC MACHINE.

*Applicant* : WESTINGHOUSE ELECTRIC CORPORATION, 61 WESTINGHOUSE BUILDING, GATEWAY CENTER, PITTSBURGH, PENNSYLVANIA 15222, UNITED STATES OF AMERICA.

*Inventors* : MARK HENRY SCHNEIDER, EMIL MICHAEL FORT, LONARD BRIAN SIMMONDS AND ROBLR JOHN KULTZOW.

Application No. 1619/Cal/75 filed August 20, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 5 Claims.

A dynamoelectric machine, incorporating a mechanical support for conductors of a liquid cooled stator, comprising a stator winding and a coolant system for circulating a liquid coolant therethrough, a plurality of winding conductors connected together to constitute said winding, each of said conductors comprising a plurality of strands, at least some of said strands being hollow to serve as coolant ducts, a header member at each end of each of said conductors and joined to said conductor with a liquid-tight joint, said header member providing an enclosed space communicating with said coolant ducts and having means for connecting said enclosed space to said coolant system, said strands of each of said conductors immediately adjacent to said header being supported in relation to each other by cured resinous material filling space between said strands, each of said conductors having a ground wall insulation comprising a wrapped insulating tape impregnated with a cured resinous material, said ground wall insulation terminating on each of said conductors at a location spaced from said header, a rigid insulating support member disposed over each of said conductors adjacent said header, said rigid insulating support member comprising a plurality of layers of insulating material, each of said layers providing substantially a full sleeve-like covering of said conductor from said header to said ground wall insulation, said rigid insulating support member being impregnated with a cured resinous material.

CLASS 32E & 84B & 140A. 144308.  
Int. Cl.-C08f 27/06, C10m 1/08,  
C10I 1/10.

A METHOD OF PRODUCING NITROGEN CONTAINING SULFURATED MANNICH CONDENSATION PRODUCT USEFUL AS AN ADDITIVE FOR LUBRICANTS AND NORMALLY LIQUID FUELS.

*Applicant* : THE LUBRIZOL CORPORATION, P.O. BOX 17100—EUCLID STATION, CLEVELAND, OHIO 44117 USA.

*Inventor* : KIRK EMERSON DAVIS.

Application No. 2267/Cal/75 filed November 27, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

#### 2 Claims. No drawings.

A method for preparing an improved sulfurated Mannich base which is condensation product of Mannich reaction use-

ful as an additive for lubricants and liquid fuels which comprises sulfurizing with elemental sulfur a conventional nitrogen containing Mannich base useful as an additive for lubricants and liquid fuels so as to produce sulfurated Mannich base product containing 0.1 to 2% sulfur by weight, based on the total weight of the improved product.

CLASS 23E. 144309.  
Int. Cl.-A45c 7/00.

#### A COLLAPSIBLE BOX STRUCTURE.

*Applicant & Inventor* : RAJ KUMAR RAI, ANUPAM KUMAR RAI, KRISHNA KUMAR RAI AND SUNIT KUMAR RAI, OF 123, AWTAR SINGH ROAD, AGRA CANT., INDIA.

Application No. 755/Cal/76 filed April 29, 1976.

Addition to No. 965/Cal/74.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

#### 10 Claims.

An improved or modified collapsible box structure as claimed in copending parent specification No. 965/Cal/75 consisting of four side walls, each set of the two adjacent walls in the structure being connected to each other by flexible jointing members, wherein there are fitted at each of the two opposite free ends of the collapsible walls a flap by means of a flexible joining member such that in the box forming position the two open ends of the collapsible structure can be closed by folding the said flaps and securing the same at the free edges of said flaps.

CLASS 23E. 144310.  
Int. Cl.-A45c 7/00.

#### A COLLAPSIBLE BOX STRUCTURE.

*Applicant & Inventor* : RAJ KUMAR RAI, ANUPAM KUMAR RAI, KRISHNA KUMAR RAI AND SUNIT KUMAR RAI, OF 123, AWTAR SINGH ROAD, AGRA CANT., INDIA.

Application No. 756/Cal/76 filed April 29, 1976.

Addition to No. 965/Cal/75.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

#### 6 Claims.

Improvement in or relating to a collapsible box structure for a box as claimed in parent specification No. 965/Cal/75, characterized in that the collapsible walls of the box are secured to end walls having at least one batten along the edges of said end wall so that by means of nails or screws the end walls is/are secured to collapsible walls of the box structure.

CLASS 23B. 144311.  
Int. Cl.-B65b 9/10.

#### A BOX STRUCTURE.

*Applicant & Inventor* : RAJ KUMAR RAI, ANUPAM KUMAR RAI, KRISHNA KUMAR RAI, AND SUNIT KUMAR RAI, OF 123, AWTAR SINGH ROAD, AGRA CANT., INDIA.

Application No. 757/Cal/76 filed April 29, 1976.

Addition to No. 967/Cal/75.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

#### 5 Claims.

A box structure comprising four side walls and a base, all connected to one another to form a container and as described in parent Patent Application No. 967/Cal/75 the lid thereof consisting of at least two flaps, each hingedly or flexibly

ly connected to two opposite walls of the box and at least one flap is provided with a strip secured to its underside of the flap so that the second flap overlies on the said strip when the two flaps are closed.

CLASS 181 &amp; 195-C.

Int. Cl.-F16k 31/00; F16j 15/00.

144312.

## SHAFT BEARING AND SEAL FOR BUTTERFLY VALVES.

*Applicant* : GENERAL ELECTRIC COMPANY, OF 1 RIVER ROAD, SCHENECTADY, STATE OF NEW YORK, 12305, UNITED STATES OF AMERICA.

*Inventors* : DONALD HARRY DAVIS & JOHN GEORGE MOSSEY.

Application No. 1420/Cal/76 filed August 6, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 6 Claims.

A butterfly valve for controlling a fluid flow through a conduit, said butterfly valve comprising a valve casing having a shaft extending through and rotatably mounted within the valve casing; a gate rotatable with said shaft and supported thereby, said gate disposed across said valve casing; and said shaft supported at each opposite end in a bore formed through said valve casing, said butterfly valve further comprising :

first sealing means disposed within each bore adjacent said valve gate for providing an annular seal between said shaft and said bore to prevent the axial leakage of controlled fluid out of the valve casing; said first sealing means allowing radial movement of said shaft within said valve casing bore;

a first pressure chamber downstream from said first sealing means with respect to axial leakage flow; said pressure chamber having a pressure level differing from the pressure level of axial leakage flow;

a spherical bearing assembly downstream from said first pressure chamber for rotatably supporting each shaft end;

a second pressure chamber downstream from said spherical bearing assembly with respect to said axial leakage flow said second pressure chamber having a pressure level differing from the pressure level of axial leakage flow;

a second sealing means downstream from said second pressure chamber with respect to axial leakage flow, said second sealing means providing an annular seal between said shaft and said bore to prevent the axial leakage of controlled fluid out of the valve casing bore;

a third pressure chamber downstream from second sealing means with respect to said axial leakage flow; said third pressure chamber having a pressure level differing from the pressure level of axial leakage flow; and,

a third sealing means downstream from said third pressure chamber with respect to axial leakage flow, said third sealing means providing an annular seal between said shaft and said bore to prevent the axial leakage of controlled fluid out of the valve casing bore.

CLASS 179-F.

Int. Cl.-B65d 7/00; 77/00.

144313.

## IMPROVEMENTS IN OR RELATING TO HOUSINGS FOR ELECTRICAL EQUIPMENT SUCH AS USED IN COMMUNICATION AND MEASUREMENT OPERATION.

*Applicant* : SIEMENS AKTIENGESELLSCHAFT, OF BERLIN AND MUNICH, WEST GERMANY.

*Inventors* : HANS-JOACHIM EGGERT, (2) OTTO OBERBERGER, (3) HEINRICH ZENKERT & RUDI KUHNE.

Application No. 1501/Cal/76 filed August 17, 1976.

Convention date March 16, 1976 (10422/76) U.K.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 7 Claims.

A housing comprising a generally box-like structure which includes two end pieces and two elongate members which are joined to said end pieces and which extend substantially parallel to one another, wherein each of the elongate members is provided with stiffening means and comprises at least one section cut from an extruded profiled bar of indefinite length, each of said elongate members being sealingly joined to respective ones of said end pieces.

CLASS 92-A &amp; D.

Int. Cl.-A23n 15/00.

144314.

## APPARATUS FOR TREATING SEEDS WITH A LIQUID.

*Applicant* : GUSTAFSON, INC., AT 6600 WASHINGTON AVENUE SOUTH, HOPKINS, MINNESOTA 55343, UNITED STATES OF AMERICA.

*Inventor* : JOSEPH ANTON WEBER.

Application No. 1745/Cal/76 filed September 21, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

## 8 Claims.

An apparatus to be alternately stored and used in successive periods, the apparatus being for use in measuring and delivering a succession of predetermined quantities of liquid, as in treatment of seeds, comprising

a supply tank to receive when being prepared for use and to contain during such periodic use a supply of the liquid and from which the liquid may be drained at the conclusion of such use in preparation for storing the apparatus so that the tank will be empty during the period when the apparatus is being stored;

an upright liquid receiver into which measured quantities of the liquid are delivered and having a wide upwardly open mouth defined by a wall with an upper edge over which such quantities are delivered;

a liquid measuring and delivery container to be filled with such quantities of liquid from the liquid supply which is contained in the tank during use of the apparatus so that such quantities may be delivered to the receiver,

two position transport means mounting and carrying said container to and between a first position and a second position, the two positions of the transport means corresponding to the first and second positions of the container, the container being located in the said first position within the tank and oriented so that all of the liquid will drain from the container as the tank is emptied upon completion of such periodic use and in preparation for storage, the container in said first position being located for pouring the liquid when liquid is contained in the tank during such periodic use, the container being located for pouring the liquid from the container into the receiver, said transport means orienting the container in the first and second positions and tipping the container to upright orientation in the tank as the container moves between said first and second positions, the container in said upright orientation being capable of holding such measured quantity of treating liquid whereby when the tank contains liquid, the container will be filled with liquid as the container moves from first position to second position.

CLASS 35-E & 136-I.  
Int. Cl.-C04 35/00.

144315.

A PROCESS FOR PREPARING SHAPED REFRAC-  
TORY ARTICLES.

*Applicant* : GENERAL REFRACTORIES COMPANY,  
OF 50 MONUMENT ROAD, BALA CYNWYD, PENNSYLVANIA 19004, UNITED STATES OF AMERICA.

*Inventors* : GRANT MORRELL FARRINGTON, (2)  
ALFRED HENRY FOESSEL, (3) JAMES DONALD HARRIS.

Application No. 994/Cal/77 filed July 1, 1977.

Division of Application No. 2449/Cal/74 filed November 7, 1974.

Appropriate office for opposition Proceedings (Rules 4, Patents Rules, 1972) Patent Office, Calcutta.

## 3 Claims.

A process for preparing shaped refractory articles comprising :

(a) coating 60 to 80 parts by weight of a coarse refractory aggregate having a particle size between 4 mesh and 28 mesh Tyler standard screen with 1.0 to 3.0 parts by weight of an organic solvent solution of a thermosetting polymer containing 70% to 100% by weight of said thermosetting polymer, to obtain a coated coarse refractory aggregate :—

(b) admixing 1 to 5 parts by weight powdered pitch with said coated coarse refractory aggregate to obtain a coated coarse refractory aggregate—pitch admixture;

(c) blending 20 to 40% parts by weight of a fine refractory aggregate having a particle size of less than 48 mesh Tyler standard screen, and 1 to 3 parts by weight of an aqueous solution of a water soluble resin containing 40% to 60% by weight of said water soluble resin with said coated coarse refractory aggregate—pitch admixture to obtain a refractory composition; and

(d) thereafter forming said refractory molding composition into shaped refractory articles.

CLASS 32F<sub>1</sub>, F<sub>2</sub>a.  
Int. Cl.-C07c 69/00.

144316.

A PROCESS FOR PREPARATION OF  $\alpha$ - (3-PENTADECYLARYLOXY) ISOBUTYRIC ACIDS AND THEIR ESTERS.

*Applicant* : COUNCIL OF SCIENTIFIC AND INDUS-  
TRIAL RESEARCH, RAFI MARG, NEW DELHI-1, INDIA.

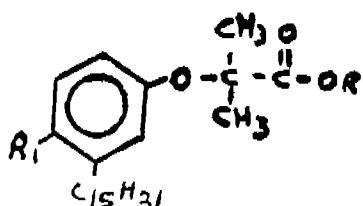
*Inventors* : THALPALLI RAMALINGAM, PRALHAD  
BALVANT RAO SATTUR AND GURBACHAN SINGH  
SIDHU.

Application No. 30/Del/76 filed November 11, 1976.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Delhi Branch.

## 4 Claims.

A process for the preparation of a  $\alpha$  (3-pentadecylaryloxy) isobutyric acids and their esters represented by the general formula of Fig. 1.



R represents hydrogen or lower alkyl group embracing C<sub>1</sub> to C<sub>6</sub> carbon atoms either in straight or branched chain;

R<sub>1</sub> denotes hydrogen or halogen such as chlorine, comprises reacting a phenol having a long alkyl straight chain of C<sub>15</sub> atoms at meta position to the phenolic group with or without substituent such as R<sub>1</sub> as described above with large excess of acetone and chloroform or carbon tetrachloride in presence of alkali metal hydroxide such as sodium or potassium, the reaction mixture is treated with a mineral acid such as hydrochloric acid to obtain the corresponding acid of Fig. 1 where R=H which may be esterified with alcohols having an alkyl group varying from C<sub>1</sub> to C<sub>6</sub> carbon atoms in presence of a mineral acid such as sulphuric acid or an organic acid such as p-tolene sulphonic acid and employing reflux temperatures depending upon the alcohol used for varying lengths of time ranging from 2-3 hours.

CLASS 182-C.  
Int. Cl.-C<sub>18</sub>C 1/00.

144317.

A PROCESS FOR REMOVING EXTRANEous IMPU-  
RITIES SUCH AS WAX, CLAY MUD, AND SOIL, FROM  
THE OUTER SURFACE OF THE SUGAR CANE.

*Applicant & Inventor* : DR. DINKAR GOVIND TAKTE  
AT AND POST KHADAM BE (BUDRUK) TALUKA-  
RAHURI, DIST. AHMEDNAGAR, MAHARASHTRA,  
INDIA.

Application No. 305/Bom/75 filed October 29, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 3 Claims.

A process for removing extraneous impurities such as wax, clay, mud and soil from the outer surface of the sugar cane comprising scrubbing the outer surface of the sugar cane manually with the help of wet cloth or wet coir which is made wet by hot water characterised in that the temperature of the water is kept in between 20°C to 65°C.

CLASS 182A.  
Int. Cl.-C<sub>18</sub>D 1/00.

144318.

AN APPARATUS FOR REMOVING THE OUTER  
SKIN OF THE SUGAR CANE TO ENHANCE THE RE-  
COVERY OF WHITE CONSUMPTION SUGAR, KHAN-  
DSARI SUGAR AND GUR QUALITY.

*Applicant & Inventor* : DR. DINKAR GOVIND TAKTE,  
AT & POST KHADAMBE (BUDRUK) TALUKA-RAHURI,  
DIST. AHMEDNAGAR, MAHARASHTRA, INDIA.

Application No. 306/Bom/75 filed October 29, 1975.

Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 4 Claims.

An apparatus for removing the outer skin of the sugar-cane to enhance the recovery of white consumption sugar, khandsari sugar and gur quality comprising a set of sharp knives fixed on two iron strips, the said strips are placed on metallic base through a notch to slide in to the front notion in hacksaw style, and the two iron strips connected to a connecting rod meant for connecting the machine to a revolving wheel rotated by an electric motor.

CLASS 32F<sub>2</sub>d.  
Int. Cl.-C07c 49/00.

144319

A PROCESS FOR THE PREPARATION OF B-OXO  
ISOLONCIFOLANES.

*Applicant* : M/S. CAMPHER & ALLIED PRODUCTS  
LIMITED, 133, MAHATMA GANDHI ROAD, BOMBAY  
400023, MAHARASHTRA, INDIA.

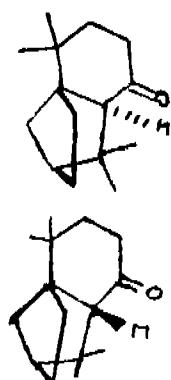
*Inventors* : BALWANT SHESHRAO PANDE, (2) SA-  
TISH CHANDRA BISARYA, AND SUKH DEV.

Application No. 25/Bom/76 filed January 19, 1976.

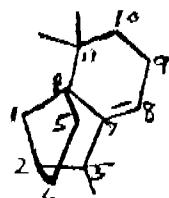
Appropriate office for opposition Proceedings (Rule 4, Patents Rules, 1972) Patent Office, Bombay Branch.

## 6 Claims.

A process for the preparation of 8-oxo-isolongifolanes (the saturated ketones of isolongifolens) of formula II and III.



which comprises (a) reacting isolongifolene of formula I,



with hydrogen peroxide and glacial acetic acid, characterised in that the reaction is carried out in the presence of catalysts such as cation—exchange resins ( $H^+$ —form) or weak inorganic acids or their oxides in heterogeneous phase at a temperature of from 25° to 70°C for 10 to 40 hours (depending upon the catalysts used); (b) isolating the catalysts for reuse by filtration or decantation; (c) washing the product with aqueous sodium bisulphite or ferrous sulphate solution followed by aqueous sodium carbonate solution; (d) distilling the washed product to produce the saturated isolongifolene ketones ( $\delta$ -oxo-isolongifolene) ketones ( $\delta$ -oxo-isolongifolanes, structures II and III of the accompanying drawing) free from any sulphurous off-notes.

## OPPOSITION PROCEEDINGS

An opposition has been entered by Shri Gowra Praveen, Director, Mysore Fertiliser Company to the grant of a patent

on application No. 143270 made by Dr. Kulasekara Perumal Mahadevan Pillai.

An opposition has been entered by Shri Gowra Praveen, Director, Mysore Fertiliser Company to the grant of a patent on application No. 143270 made by Dr. Kulasekara Perumal Mahadevan Pillai.

## PRINTED SPECIFICATION PUBLISHED

A limited number of printed copies of the undenoted specifications are available for sale from the Officer-in-Charge, Government of India, Central Book Depot, 8, Hastings Street, Calcutta, at two rupees per copy:—

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136283 136286 136287 136288 136289

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142498 142503 142510 142514 142517 142520 142526 142538  
142539 142544 142554 142556 142558 142561 142575 142576  
142615 142617 142641 142652 142666 142678 142718 142720  
142724 142737 142742 142744 142746 142747 142752 142790  
142803 142814 142819 142820 142824

## COMMERCIAL WORKING OF PATENTED INVENTION

List No. 4

The following patents in the field of General & Mechanical Engineering Industry are not being commercially worked in India as admitted by the Patentee in the statements filed by them under Section 146(2) of the Patents Act, 1970, in respect of Calender year 1976 generally on account of want of requests for licences to work the patented inventions. Persons who are interested to commercially work the said patents may contact the patentee for the grant of a licence for the purpose.

S. No.	Patent No.	Date of Patent	Name and address of Patentee	Brief title of invention
1	2	3	4	5
(1)	133239	15-10-1971	Jervis B. Webb Co., 900 Alpine Avenue, Detroit, Michigan 48208, U.S.A.	Improvements in conveyor carriers.
(2)	133246	15-10-1971	Bunker Rao Corporation, Oakbrook North, Oak Brook, Illinois, U.S.A.	Crimping apparatus
(3)	133270	19-10-1971	Girling Limited, Kings Road, Tyseley, Birmingham 11, England.	Disc Brakes for Vehicles
(4)	133284	20-10-1971	Ro-search Inc, Wynesville, North Carolina, USA.	Footwear & method of & device for its manufacture.
(5)	133321	22-10-1971	Scientronic Instruments, 44/3, Regal Bldg., New Delhi-110 001, India	Apparatus for washing glass pipettes or like tubular apparatus
(6)	133324	22-10-1971	Ruti Machinery Works Limited, CH-8630 Ruti, Zurich, Switzerland	Holder for loom reed

1	2	3	4	5
(7)	133346	25-10-1971	Mefina S.A.; 5-route de Beaumont, Fribourg, Switzerland	Sewing machine case
(8)	133354	20-10-1971	Interwest General Corp.; 650, Kennecott Land Bldg., Salt Lake City, Utah, U.S.A.	Manufacture of multilayer Planer Elements
(9)	133362	11-05-1070	Minnesota Mining & Manufacturing Co; 3 M-Center, Saint Paul, Minnesota 55101, U.S.A.	An assembly station for use in splicing of communication cables.
(10)	133363	15-05-1970	Minnesota Mining & Manufacturing Co., 3 M-Center, St. Paul, Minnesota 55101, U.S.A.	Probe member for verifying electrical connection to be used in splicing of communication Cable
(11)	133379	27-10-1971	Belokalitvensky Metallurgichesky Zavod, Belya Kalitva Restovkoi, Oblasti U.S.S.R.	Metal irrets
(12)	133380	27-10-1971	Abex Corporation, 530 Fifth Avenue, New York, New York, U.S.A	Disc Brakes
(13)	133409	29-10-1971	Girling Limited, Kings Road, Tyscley, Birmingham 11, England	Hydraulic Braking System for vehicles.
(14)	133417	29-10-1971	Kharkovsky Aviasionny Institute, Kharkov, Ulitsa, Chkalova, 17, U.S.S.R.	Pulse Piston drive.
(15)	133426	30-10-1971	Process Evaluation and Development Corporation 3 Hanover Square, New York, N.Y. 10094, U.S.A.	Paper pulp Digester blowdown method.
(16)	133428	22-9-1972	Hunet Gmpf; 44, Munstr/West, Daniweg 102, F.R. of Germany	Thread braking device for double strand yarn spindles.
(17)	133441	01-11-1971	Veb Polygraph, 592, Zweinaundorfer-Strasse, Leipzig, G.D.R.	Tensioning device for printing plates.
(18)	133442	01-11-1971	Osoboc Konstrukterskoe Bjothro (OKB) Ministerstra Glo- logi, Leningrad, Ulitsa Gogalya II, USSR	A borehole tool for logging units and particularly for use in conjunction with X-ray Fluorescence analyser
(19)	133514	06-11-1971	Svenska Aktiebolaget Bromsregulator, Adelgatan 5, 21122 Malmo, Sweden	Hydraulically operated cylinder piston Unit.
(20)	133526	08-11-1971	Societe Technique Pour L'Utilisation De La Precontraints; 66 Route de la Reine, Boulogne, Hants de seine, France.	Elastic bearing device in particular for structures
(21)	133527	08-11-1977	Terrance J. Waters; 33560, Mulholland Highway, Malibu, California, C/o. 265, U.S.A.	Hyperboloid Buildings
(22)	133531	08-11-1971	Viktor Vladimirovich Vinogradov, Gorky, Ulitsa, Gon- charova, 4a, KV, 6, USSR.	Pneumatic relay
(23)	133532	08-11-1971	TSG International Inc; 1900 Exchange Bldge, Memphis, Tennessee, 38103, U.S.A.	Method of making a box
(24)	133545	09-11-1971	National Trust Co. Limited, Ontario; 21 Kings Street, East, Toronto, Ontario, Canada.	Shoes
(25)	133546	09-11-1971	Sperry Rand Corp; Crooks & Maple Road, Troy, Michigan, 48084, U.S.A.	Valves for fluids
(26)	133560	10-11-1971	USS Engineers & Consultants Inc; 525, William Penn Place, Pittsburgh, Pennsylvania, U.S.A.	Temperature Sensing device
(27)	133561	10-11-1971	Imperial Chemical Industries Limited, Imperial Chemical House, Millbank London, S.W.1, England	Apparatus for the production of a pile surfaced sheet material
(28)	133562	10-11-1971	Indian Explosives Limited, I.C. I. House, 34, Chouringhee Road, Calcutta-16, India	Borehole loading nozzle
(29)	133576	11-11-1971	Philip Morris Inc; 100 Park Avenue, New York, N. Y. 100 17, U.S.A.	Blade Dispenser
(30)	133578	11-11-1971	International Computers Limited, ICL House, Putney, London S.W.15, England.	Card Gauge
(31)	133581	11-11-1971	The Textile & Allied Industries, Research Organisation, Kala Bhavan Premises, Baroda-390001, India.	Builder motion mechanism for doubling machine
(32)	133603	12-11-1971	Schubert & Salzer Maschin Akt, Romerstrasse, 1/2, 8070, Ingolstadt, West Germany.	Apparatus for piecing up yarn in an open-end spinning device.
(33)	133617	15-11-1971	(1) Asahi Kasei K. K. of 25-1, -I-Chone, Dojima, Lamadori, Kitaku, Osaka, Japan. (2) Polymer Processing Research Institute, Limited, No. 9-2, 1-Chono, Kaga, Itabashi-Ko, Tokyo, Japan.	Producing crimped fibres by continuous wet heat and apparatus therefore.

1	2	3	4	5
(34)	133643	16-11-1971	Ludwig Taprogge; 4034, Angermund, Wachelderstrasse 7, G.F.R.	A Filter device for separating solids from fluids flowing in pipes
(35)	133645	09-02-1973	Snamprogetti S.P.A.; 16, Corso Vanezia, Milan, Italy.	Apparatus suitable for withstanding high internal pressure
(36)	133656	17-11-1971	Mark Isaakovich Frenkel; Leningrad, Ulitsa, Karbyshava 6, Korpuoz, K. U. 20, U.S.S.R.	Uniflow Valve for compressor.
(37)	133692	22-11-1971	The Goodyear Tyre & Rubber Co., 1144 East Market Street, Akron, Ohio, U.S.A.	A Tyre building machine and method of building pneumatic Tyres.
(38)	133695	22-11-1971	USSR Engineers & Consultants Inc; 525 William Penn Place, Pittsburgh, Pennsylvania, USA	Continuous Casting machine
(39)	133715	23-11-1971	Claude Hector May; "Beaumont", Cambridge Park Street, Peter Port Guernsey, Chaunel, Island.	Vapour Generators
(40)	133800	30-11-1971	Sealed Power Corp.; 2001 Sanford Street, Muskegon, Michigan, 49443, U.S.A.	Loading Sleeves for use in installing piston.
(41)	133817	1-12-1971	Dr. Carl Ullrich Peddinghaus, 56, Wuppertal, Barmeh, Obere Lichtenplutzer Strasse 276, F.R. of Germany.	Pneumatic piston and cylinder damping device
(42)	133820	01-12-1971	Veb Polygraph, 592, Weinendorfer Strasse, Leipzig, G.D.R.	Device for adjusting the spring, force on folding rolls.
(43)	133821	01-12-1971	Ethicon Inc; Somerville, New Jersey, U.S.A.	Sterile absorbable surgical suture
(44)	133832	01-12-1971	Sperry Rand Corp.; Crooks & Maple Road, Troy, Michigan, 48084, U.S.A.	Controlled relief valves
(45)	133838	03-12-1971	Girling Limited, Kings Road, Tyseley, Birmingham, 11, England	Fluid Pressure Control Valve
(46)	133841	03-12-1971	U.S. Amada Limited, 615 8th Avenue South, Seattle, Washington, U.S.A.	Punch Press
(47)	133845	04-12-1971	Industries Pirelli Societa Per Azioni, Centro Perelli, 20100 Milan, Italy.	Radial Cord Carcass Tyre wheel.
(48)	133857	06-12-1971	Abex Corp.; 530 Fifth Avenue, New York, New York-10036, U.S.A.	Metal Object Sensor Particularly for railway wheels.
(49)	133861	07-12-1971	Sprocket Properties Limited, 32A, Cockerton Green, Darlington Co; Durham, England	Fluidised bed apparatus and method
(50)	133862	07-12-1971	Universal Oil Products Co; No. 10 UOP-PLAZA-Algonquin & mt Oil Prospect Roads, Des Plaines, Illinois, U.S.A.	Improved vapour liquid contacting device.
(51)	133863	07-12-1971	Sperry Rand Corp.; Crooks & Maple Road, Troy, Michigan 48084, U.S.A.	Pumps and Motors
(52)	133901	09-12-1971	Girling Limited, Kings Road, Tyseley, Birmingham 11, England.	Fluid Flow Control Valve
(53)	133914	10-12-1971	Burroughs Corp.; Second Avenue, Detroit, Michigan 48232, U.S.A.	Display device including gas cells and crystal cells
(54)	133917	10-12-1971	Schubert and Salzer Masehin Akt; Romerstrasse, 11/12, 8070, Ingelstadt, West Germany.	Apparatus for stopping and starting one or more open end spinning devices
(55)	133928	13-12-1971	Showa Denko K.K; No. 34, Shiba Miya, Moto-Chō Minato-Kō, Tokyo, Japan.	Sintered agglomerates and method of producing the same.
(56)	133941	15-12-1971	Wilhelm Stahlecker GmbH, 7341, Reichenbach, West Germany	Bearing Unit for open end spinning turbines.
(57)	133944	15-12-1971	Girling Limited, Kings Road, Tyseley, Birmingham 11, England	Shoe drum brakes for vehicles
(58)	133965	16-12-1971	Andrew Joshep Totl, 311 West River Road, Modesto, California, U.S.A.	Structural assembly joint
(59)	133966	16-12-1971	Indian Oxygen Limited, Oxygen House, 1/34, Taratala Road, Calcutta-53, India	Improvements in compressed gas cylinders.
(60)	133981	17-12-1971	Mefina S.A.; 5 Route de Beaumont, Fribourg, Switzerland.	Carrying case assembly for an apparatus such as sewing machines and cine projectors
(61)	133982	17-12-1971	Do.	Sewing Machine
(62)	133992	18-02-1972	U.S. Patel, S.A. Mission High School, Nandurbar Dist. Dhulla, India.	Making pencil

1	2	3	4	5
(63)	134002	18-12-1971	General Electric Co; 1 River Road, Schenectady, New York, N.Y. U.S.A.	Apparatus for maintaining constant volume flow rate in section pumps.
(64)	134003	18-12-1971	Artos Gesellschaft Fur Industriella Und Entickling C.A.; Mier, Windhorst, of 2092 Maschen, Uber Winsen, Uber Winsen, G.T.R.	Treatment device particularly for the heat treatment of Web-like material.
(65)	134007	20-12-1971	Telephone-Und Telegraphen-Fabriks Aktiengessellschojt Kapsch & Sohne in Wien, Wagnseilgassel, Wien XII, Austria.	Apparatus for joining a tubular thermoplastic container jacket by means of Ultrasonics to a thermoplastic end cap to form a liquid tight seal.
(66)	134013	20-12-1971	Scovill Manufacturing Co; Waterbury, New Haven, Connecticut, U.S.A.	Valves pressurisable containers.
(67)	134016	20-12-1971	Cskoscovenska Academic Ved, Praha, Czechoslovakia.	Thin walled articles from plastics or rubber.
(68)	134024	21-12-1971	USS Engineers & Consultants Inc; 525 William Penn Place, Pittsburgh, Pennsylvania, U.S.A.	Method of making rim stabilized steel ingots.
(69)	134037	22-12-1971	Andrew Joseph Toti, 311 West, River Road, Modesto, California, U.S.A.	Structural Unit.
(70)	134049	23-12-1971	Svenska Aktiebolag Bromsregulator, Adelgatan, 4, 21122 Malmo, Sweden.	Pneumatic Cylinder Piston unit for railway brake riggings.
(71)	134051	23-12-1971	Joseph Lucas (Industries) Limited, Great Kings Street, Birmingham, England.	Inlet manifolds for an internal combustion engine.
(72)	134054	24-12-1971	Gestetner Limited, Fawley Road, Tottenham, London N. 17, England.	Duplicating Stencils.
(73)	134072	27-12-1971	Mass Transfer Limited, District Bank Chambers, High Street, New Castle Staffordshire, England.	Fluid, Fluid Contact apparatus.
(74)	134077	27-12-1971	Mitsubishi Petrochemical Co; Limited, 3-1-, 2-Chome, Marunouchi, Chiyoda-Ko, Tokyo-to, Japan.	Method of manufacturing an elongated articles.
(75)	134096	28-12-1971	Stamprogetti S.P.A., 16 Corse Venezia, Milan Italy.	A pressure Vessel.
(76)	134100	28-12-1971	The Glacier Metal Co; Limited 368, Laling Road, Alperton, Wembley Middlesex, England.	Bearings.
(77)	134120	04-08-1970	Westinghouse Air Brake Co; Pittsburgh, Pennsylvania, U.S.A.	Propulsion and braking contact system for railway vehicle.
(78)	134150	31-12-1971	Gebruder Orthinghaus, Wermelkirchen, Kenthansen, F R. of Germany.	Combined pressure operated clutch braking device.
(79)	134161	03-01-1972	Cleo Ladell Sainsturry, 9537 Weissborn Drive, Indian Hills, Colorado 80454, U.S.A.	Geological sample collecting apparatus.
(80)	134165	03-01-1972	Eli Lilly & Co., 740 Alabama Street, Indianapolis, Indiana, U.S.A.	Apparatus for feeding and orienting a succession of medicinal capsules and the like in a predetermined Position for processing.
(81)	134176	04-01-1972	Eastman Kodak, Co; 343 State Street, Rochester, New York, 14650, U.S.A.	Apparatus for sensitometry of a liquid Photosensitive liquid.
(82)	134177	04-01-1972	Chicago Pneumatic Tool Co; 6 East 44th Street, New York, N.Y.U.S.A.	Pneumatic tool having combined nut running and crimping mechanism.
(83)	134220	07-01-1972	Schubert & Salzer Maschin Akt, Romerstrasse, 11/12, 8070, Ingolstadt., West, Germany.	A fibrous material mixing apparatus.
(84)	134222	07-01-1972	Veb Polygraph; 592, Zweinaundorfer strasse, Leipzig, G.D.R.	Printing machine.
(85)	134231	10-01-1972	Industrie Pirelli Societo Per Azioni, Centro Pirelli, 20100 Milan, Italy	Stitching apparatus for tyre bldg. machines having building drums.
(86)	134279	14-01-1972	F.L. Smidh & Co., A/S; 77, Vigerslev Alle, Copenhagen- valby, Denmark.	Grinding Mills.
(87)	134283	14-01-1972	USS Engineers and Consultants Inc; 600 Grant Street, Pittsburgh, Pennsylvania, U.S.A.	Apparatus for adjustment of side trimmer knife.
(88)	134284	14-01-1972	The Glacier Metal Co. Ltd., 368, Ealing Rd., Alperton, Wembley, Middlesex, England.	Bearing having a lining of aluminium silican alloy.
(89)	134288	28-02-1972	Lthican Inc; Somerville, New Jersey U.S.A.	Retention suture bridge.

1	2	3	4	5
(90)	134297	17-01-1972	The Broken Hill Proprietary Co. Ltd., 500 Bourke Street, Melbourne, State of Victoria, Commonwealth of Australia.	Forming an easy opening closure in a sheet metal container member & easy opening closures so formed.
(91)	134318	19-01-1972	Sealed Power Corp.; 2000 Sanford Street, Muskegon, Michigan 49443, U.S.A.	Piston ring assemblies.
(92)	134319	19-01-1972	Sperry Rand Corp.; Crooks & Maple Rds., Troy, Michigan 48084, U.S.A.	Valves for fluids.
(93)	134325	19-01-1972	Texaco Development Corp.; 135, East 42nd Street, New York, N.Y. 10017, U.S.A.	Fuel burner.
(94)	134328	19-01-1972	Moskovskoe Otdelenie; Nary Shkinskaya, Albye 5, Moscow, USSR.	A Feeder for bulk materials.
(95)	134343	20-01-1972	Elkem Spigerverket A/s; Elkemhuset Middlethunsgaten 27, Oslo, Norway.	Arrangement for venturi gas scrubbers.
(96)	134352	02-09-1970	E.L. Smidt & Co; A/s; 77 Vigerslev Alle, Copenhagen-Valby, Denmark.	Apparatus for heating or cooling granular or powdered material.
(97)	134380	25-01-1972	Westinghouse Electric Corp.; Pittsburgh, Pennsylvania, USA.	Reverse Osmosis Module.
(98)	134381	25-01-1972	Agrophysics Inc.; 360 Pine Street, San Francisco, California, USA.	Device for insertion into the reproductive tract of animals or human beings.
(99)	134385	25-01-1972	SCM Corporation, 299 Park Avenue, New York, N.Y. 10017, USA.	Typewriter ribbon cartridge guide Support.
(100)	134386	25-01-1972	SCM Corporation, 299 Park Avenue, New York, N.Y. 10017, USA.	Typewriter ribbon cartridge.
(101)	134387	25-01-1972	Polysius AG; 4723 Naubekum, Graf Galenstrasse 17, F.R. of Germany.	A device for pneumatically conveying loose material.
(102)	134422	29-01-1972	L'Air Liquide Societe Anonyme Pour L'Etude Et L'Exploitation Des Procedes Georges Claude, 75, Quid' Orsay-75 Paris Teme, France.	Method & installation for the compression of a fluid by the expansion of another fluid.
(103)	134477	02-02-1972	Soundfold Inc; 3704 Wilmington, Dayton, Ohio 45429, USA.	Support structure for cloth like material.
(104)	134498	04-02-1972	Polysius AG; 4723 Naubekum, Graf Galenstrasse 17, F.R. of Germany.	Travelling grate.
(105)	134509	05-02-1972	Girling Ltd; Kings Rd, Tyseley, Birmingham 11, England.	Adaptor assemblies for connecting complementary members.
(106)	134510	Do.	Do.	Do.
(107)	134511	Do.	Do.	Do.
(108)	134512	Do.	Joseph Lucas (Industries) Ltd; Great Kings street, Birmingham, England.	Control apparatus for an J-C engine fuel injection system.
(109)	134539	08-02-1972	Veb Polygraph; 59, Zweinaundorfer strasse, 705 Leipzig, East Germany.	Apparatus for thread-sealing together two sheet portions.
(110)	134540	Do.	Do.	A thread stitching method & apparatus therefor.
(111)	134541	Do.	Do.	Stitching apparatus.
(112)	134542	Do.	Do.	Apparatus for producing folded & thread sealed sheet.
(113)	134549	09-02-1972	Howson-Algraphy Ltd; Murray Rd, Orpington, Kent, England.	Sheets for making lithographic Printing Plates.
(114)	134560	10-02-1972	Sir James Farmer Norton & Co. Ltd., Adelphi Street, Salford 3, Manchester, Lancashire, M 60 9HH, England.	Apparatus for treating webs.
(115)	134587	11-02-1972	Wilhelm Stahlecker Gmb 7341, Reichenthal, West Germany.	Spinning Turbine.
(116)	134589	11-05-1970	The Carborundum Co; 1625 Niagara Avenue, Niagara Falls, Niagara, New York, USA.	Impact moulding of polysters.
(117)	134598	14-02-1972	USS Engineers & Consultants Inc; 600 Grant Street, Pittsburgh, Pennsylvania, USA.	Apparatus for measuring oxygen Content of a fluid.
(118)	134599	14-02-1972	Dresser Industries Inc; Republic National Bank Bldg., P.O. Box 718, Dallas, Texas, 75221 USA.	Annular Seal assembly & arrangement of annular seals.
(119)	134600	14-02-1972	Do.	Compressor pump or the like.

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(120)	134605	14-02-1972	Clayton Dewandre Co. Ltd., Titanic Works, Lincoln, Fluid pressure operated brake actuators.	England.
(121)	134607	14-02-1972	Sundstrand Corp.; 2531 Eleventh Street, Rockford, Hydromechanical Transmission.	Illinois, USA.
(122)	134616	15-02-1972	Industrilaboratoriet AB; Myntagtganzl Jonkoping, Sweden.	S-552 57 Machine for the manufacture of wax matches.
(123)	134618	15-02-1972	Wood Brothers Glass Co. Ltd., Borough Flint Glass Work, Barnsley, York, England.	Making of graduated volumetric measuring of vessels of glass-ware and like materials.
(124)	134622	15-02-1972	Sandvik Aktiebalag, Fack S. 81101, Sandiviken 1, Sweden.	Drill rod coupling.
(125)	134627	16-02-1972	Dunlop Limited, Dunlop House, Ryder Street, St. James's, London S.W.1, England.	High performance pneumatic tyres.
(126)	134628	16-02-1972	Westinghouse Brake & Signal Co. Ltd., 82, York Way, Kings Cross, London N1 9AJ England.	Valve means.
(127)	134632	16-02-1972	Vsesojuzny Nauchno Issledovatelsky Institut, Frunzenskaya, Ulitsa, 8, Moscow, USSR.	2 Single bucket excavator.
(128)	134654	17-02-1972	Dresser Industries Inc; Republic National Bank Bldg., P.O. Box 718, Dallas, Texas 75221, USA.	Compressors, Pumps or like.
(129)	134656	17-02-1972	Filial Tsentralno Nauchno Issle dovatskogo Instituta, Tula, USSR.	Device for ingot withdrawal from mould during continuous casting of metals.
(130)	134662	18-02-1972	Sunkist Growers Inc; 14130 Riverside drive Sherman Oaks, California, USA.	Automatically selecting between a plurality of generally spherical objects.
(131)	134663	18-02-1972	Sherritt Gordan Mines Ltd., 25 King street West, Toronto, Ontario, Canada.	Container & Method for separation of solids from a liquid containing said solids.
(132)	134664	18-02-1972	Dunlop Ltd., Dunlop House Ryder street, St. James's, London S.W. 1, England.	A wheeled vehicle having skid control system & skid control apparatus for prevention of a containing non rotating wheel condition.
(133)	134665	18-10-1970	Girling Ltd; Kings Rd; Tyseley, Birmingham 11, England.	Hydraulic vehicle braking system.
(134)	134669	18-02-1972	Envirotech Inc; 537 West 6th South, Salt Lake city, Utah, USA.	Agitator device assembly for drum type Filters.
(135)	134673	19-02-1972	Wilhelm Hoglar; 8731, Oerlinbach, West Germany.	Apparatus for the production of transversely profiled plastics pipes.
(136)	134674	19-02-1972	Moskovske Otdelenie etc; Nary shkinskaya alleys, 5 Moscow, USSR.	Device for feeding loose materials.
(137)	134675	19-02-1972	Ronald Leacock; 4719 Fielder Street, Tampa, Florida, USA.	Automatic machine tool.
(138)	134677	19-02-1972	USS Engineers & Consultants Inc; 600 Grant Street, Pittsburgh, Pennsylvania, USA.	Apparatus for controlling weight and distribution of, coating on a substrate.
(139)	134678	19-02-1972	Do.	Forming metallic coating on a moving strip emerging from a bath of molten coating material & an apparatus therefor.
(140)	134693	21-02-1972	Dunlop Ltd; Dunlop House, Ryder Street, St. James's London S.W. 2, England.	Manufacture of tyres.
(141)	134704	22-02-1972	A.R. Wilfley & Sons Inc; 1860 Lincoln street, Denver, Colorado, USA.	Vertical centrifugal pump.
(142)	134721	22-02-1972	C.A. V. Ltd. Wall Street, Birmingham 19, England.	Governor mechanism.
(143)	134722	23-02-1972	USS Engineers & Consultants Inc; 600 Grant Street, Pittsburgh, Pennsylvania, USA.	Adjustable conducting roll apparatus.
(144)	134736	20-04-1972	Miles Laboratories Inc; 1127, Myrtle St. Elkhart, Indiana, USA.	Testing device for microorganism.
(145)	134738	27-08-1970	Girling Ltd., Kings Rd. Tyseley, Birmingham 11, England.	Servo Motors especially for vehicle braking system.

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(146)	134810	02-03-1972	Globe Union Inc; 5757 N Green Bay Avenue Milwaukee, Wisconsin, 5312, USA.	Industrial type variable speed Centrifuge.
(147)	134814	03-03-1972	Universal Oil Products Co. No. 10 Uop Plaza-Algonquin & Mt. Prospect Rds, Des Plaines, Illinois, USA.	Self adjustment for body support cushion.
(148)	134831	08-03-1972	David L. Rowland, 8 East 62nd Street, New York, N.Y. 10021, USA.	Assemblies of seats & backs usable furniture automobiles & other transport vehicles.
(149)	134859	07-03-1972	Mefina S.A.; 5 route de Beaumont, Fribourg, Switzerland.	Sewing machine.
(150)	134876	08-03-1972	Westinghouse Electric Corp; Pittsburgh, Pennsylvania, USA.	Improved spaced-metallic-place type of arc-chute for switch
(151)	134885	08-03-1972	H. Wigger & Co.; 475 Unnd Westf, Morgenstr, 39/41, F.R. of Germany.	Chopper for the crushing particularly of raw material of small cross section such as wood waste at similar material.
(152)	134889	09-03-1972	Girling Ltd.; Kings Rd. Tyseley, Birmingham 11, Sliding Caliper disc brakes, England.	
(153)	134890	Do.	Do.	Do.
(154)	134892	Do.	Door-Oliver Inc; 77 Haveneyer Lane, Stamford, Connecticut, USA.	Pumping system.

## REGISTRATION OF ASSIGNMENTS, LICENCES, ETC. (PATENTS)

Assignments, licences or other transactions affecting the interests of the original patentees have been registered in the following cases. The number of each case is followed by the names of the parties claiming interests:—

123920. M/s. Thyssen Niederrhein Aktiengesellschaft Hütten- und Weltwerke.

## PATENTS DEEMED TO BE ENDORSED WITH THE WORDS "LICENCES OF RIGHT"

The following patents are deemed to have been endorsed with the words "Licences of right" under Section 87 of the Patents Act, 1970. The dates shown in the crescent brackets are the dates of the patents.

## No. &amp; Title of the Invention

77290 (20-4-72) Novel derivative of piperazine, its preparation and therapeutic composition containing the same.

77900 (20-4-72) Capreomycin and acid addition salts thereof and process for preparing same.

79544 (20-4-72) Preparation of derivatives of 1, 2, 3, 4, 5, 6-hexahydro-2, 6-methano-3-benzazocine.

80978 (20-4-72) A process for preparation of  $\alpha$ -aminobenzyl penicillin.

108509 (20-4-72) Process for the preparation of carboxamidoalkyl-1, 3-benzoxazine.

117791 (20-4-72) Process for preparing acylated n-(alkylaminoalkyl)-aminopyridines.

128642 (20-4-72) Process for the isolation of asclepin, a new cardiotonic agent, from *Asclepias curassavica* Linn.

133572 (10-11-71) Improved process for the fermentation of tch.

134117 (29-12-71) Process for the production of hydrofluoric acid and a metal sulphate.

134976 (17-3-72) Method for controlling the amount of silicon contained as an impurity in the manufacture of high carbon ferrochromium.

135139 (3-4-72) A process for bulk polymerising vinyl chloride or vinyl chloride and another monomer.

135702 (27-4-72) Process for preparing pigment preparations.

135741 (11-5-72) Production of nickel powder from basic nickel carbonate.

## RENEWAL FEES PAID

76723 79373 79998 80953 82373 82435 85380 86302 87186  
 87299 87371 87417 87489 87516 87800 89012 90276 90561  
 91368 92573 92996 93122 93178 93199 93274 93406 93409  
 93441 93697 94209 94668 94776 95909 96290 96418 97563  
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 126658 126732 126837 126877 127312 127394 127619 127917  
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 130161 130175 130434 130653 130698 130719 130739 130750  
 120808 120811 130837 130893 130895 130903 130950 130987  
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131224 131352 132370 132728 132907 133106 133317 133332  
 133812 134215 134381 134470 134548 134814 134860 135043  
 135054 135075 135113 135137 135138 135139 135190 135253  
 135276 135323 135332 135338 135467 135656 135724 135796  
 136333 136502 136503 136843 136870 137040 137069 137284  
 137523 137720 137891 138186 138241 138307 138422 138478  
 138621 138676 138739 138912 138923 138939 138945 138966  
 139058 139129 139156 139222 139238 139389 139501 139503  
 139504 139505 139506 139621 139915 139936 139937 139938  
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 140516 140517 140543 140759 140760 140761 140762 140763  
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 141078 141148 141341 141342 141343 141344 141380 141532  
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#### CHASSATION OF PATENTS

105947 105952 105953 105971 105979 105980 105983 105995  
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 106109 106110 106112 106140 106163 106194 106229 106253  
 106266 106274 106285 106286 106297 106303 106306 106318  
 106331 106332 106334 106336 106346 106351 106390 106393  
 106394 106405 106419 106480 106503 106524 106537 106540  
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 106702 106704 106712 106717 106749 106767 106774 106777  
 106781 106787 106797 106825 106832 106842 116110 126522  
 126550 139459 140183 141553.

#### RFSTORATION PROCEEDINGS

(1)

Notice is hereby given that an application for restoration of Patent No 86036 dated the 14th January, 1963 made by Mrs. Kunjibala Chinubhai Gandhi on the 11th July, 1977 and notified in the Gazette of India Part III, Section 2 dated the 20th August, 1977 has been allowed and the said patent restored.

(2)

Notice is hereby given that an application for restoration of Patent No. 119362 dated the 10th January, 1969 made by The Mysore Electrical Industries Ltd., on the 23rd July, 1977 and notified in the Gazette of India, Part III, Section 2 dated the 24th September, 1977 has been allowed and the said patent restored.

(3)

Notice is hereby given that an application for restoration of Patent No. 133279 dated the 17th July, 1972 made by Council of Scientific and Industrial Research on the 13th June, 1977 and notified in the Gazette of India Part III, Section 2 dated the 13th August, 1978 has been allowed and the said patent restored.

(4)

Notice is hereby given that an application for restoration of Patent No. 135553 dated the 14th July, 1972 made by Mrs. Kunjibala Chinubhai Gandhi on the 11th July, 1977 and notified in the Gazette of India, Part III, Section 2 dated the 20th August 1977 has been allowed and the said patent restored.

#### REGISTRATION OF DESIGNS

The following designs have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Designs Act, 1911.

The date shown in each entry is the date of registration of designs included in the entry.

Class 1 No. 145534. Kosmos International Ltd., a Bahamian Company, of 5 Shirley Street, Nassau, Bahama Islands. "Biorhythym Computer", May 10, 1977.

Class 1. Nos 145819 & 145820. Jagdish Prasad Gupta. An Indian National Trading as:— ROAD REFLECTIVE ROSES, 281/1, Pimpri, Meerut City, Uttar Pradesh, India. "Reflective stud (cateyes)" July 12, 1977.

Class 1. No. 145854. Universal Battery Plate, Mfg. Company, An Indian Registered Partnership Firm, having its office at Churlwadi, Aarey Road, Goregaon (East) Bombay-400063, Maharashtra, India. "A battery plate" July 25, 1977.

Class 1. No. 145865. Prakash Hardwares, 5620-Basant Road, Pahar Ganj, New Delhi. An Indian sole proprietary concern. "Lock-Handle", July 29, 1977.

Class 1. No. 145922. Chander Mohan, an Indian Citizen, S. 206, Greater Kailash, New Delhi. "Tie Hanger". August 20, 1977.

Class 1. No. 145997. C. Lal Electricals & Mechanicals, 1-2, Industrial Estate, Ambala City-134002, (Haryana). an Indian Partnership concern. "Mixer-cum-grinder". September 6, 1977.

Class 3 No. 145830. Rajpal Plastic Industries, 303, Neelkanth, 98, Marine Drive, Bombay-400002, Maharashtra State, Indian Partnership Firm. "Tea Strainer" July 14, 1977.

Class 3. No. 145830. Rajpal Plastic Industries, 303, Neelkanth, 98, Marine Drive, Bombay-400002, Maharashtra State, Indian Partnership Firm. "Waste Paper Basket" July 14, 1977.

Class 3 No. 145843. Bata India Limited. A public limited Company, incorporated under the Indian Companies Act and having its registered office at 30, Shakespeare Sarani in the Town of Calcutta, West Bengal. "Sole for Footwear", July 18, 1977.

Class 3. No. 145859. Paramount Products, an Indian Partnership concern. When address is 809 Prasad Chambers, Bombay-400004, (Maharashtra State). "Containers", July 26, 1977.

Class 4. No. 145813. Narotam Chadha, trading as Chadha Industries (India) of A-31/35, Kailash Super Market, Kailash Colony, New Delhi-110048, India. "Folding Mirror". July 11, 1977.

Class 9. Nos 146125, 146126, 146127, 146128, 146129, 146130, 146131, 146132 & 146133. M/s. Sovrin Knit Works, 20/4, Mathura Road, Faridabad (Haryana) A registered partnership Firm of Indian Nationality. "The textile goods" October 14, 1977

Class 10 No. 145657. Everest Enterprises, 47-Kushal Pole, Udaipur, Rajasthan, India, An Indian Partnership Firm. "Footwear" June 9, 1977.

Class 10. Nos. 145838, 145819, 145940, 145841 & 145832. Bata India Limited. A public limited company incorporated under the Indian Companies Act and having its registered office at 30, Shakespeare Sarani in the town of Calcutta, West Bengal. "Footwear". July 18, 1977,

## CANCELLATION OF THE REGISTRATION OF DESIGNS

## (Section 51A)

The application made by Ramesh Vinaychand Doshi and others trading as Metals Manufacturing Co. for cancellation of the registration of Design No. 143508 in the name of Bombay Filters & Appliances Private Limited which was notified in the Gazette of India, Part III, Section 2 dated the 18th December 1976 has been allowed and the registration of the said design has been cancelled.

An application has been made by Geep Flashlight Industries Limited for cancellation of the registration of Design No. 145236 in Class 3 in the name of Indo National Limited.

An application has been made by Geep Flashlight Industries Limited for cancellation of the registration of Design 145236 in Class 3 in the name of Indo National Limited.

An application has been made by Manubhai Naranbhai Patel for cancellation of the registration of Design No. 145297 in Class 1 in the name of Indo National Limited.

S. VEDARAMAN,  
Controller-General of Patents, Designs and  
Trade Marks,